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CHEMIST AND DRUGGIST

for RETAILER — WHOLESALE — MANUFACTURER

SEPTEMBER 16, 1950



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'Tabloid' 'Empirin' Compound with Codeine . . . widely prescribed for relief of pain when narcotics are undesirable . . . will in future be issued under the name 'CODEMPRIN.' Content of the four active ingredients is essentially unchanged, but the products themselves have been reduced in weight from 10.1 grains to 7.6 grains. 'CODEMPRIN' is very attractively packed, with cartons and labels matching those now used for 'Tabloid' Aspirin and 'Tabloid' 'Empirin' Compound. A bonus of 13 to the dozen will be given on orders of 3 dozen or over. List prices remain unaltered: bottle of 25, 2/3 plus 7d. tax; bottle of 100, 7/9 plus 1/11½ tax; dispensing pack of 500, 35/- tax free.

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'CODEMPRIN' TRADE MARK

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The CHEMIST AND DRUGGIST



for RETAILER—WHOLESALE—MANUFACTURER

SEPTEMBER 16, 1950

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NEWS OF THE WEEK

Shop-window Lighting.—Restrictions on shop-window and advertisement lighting with electricity from the public supply will apply on Mondays to Fridays from 7 a.m. to 1 p.m. between October 9 and 22 and from 7 a.m. to 6 p.m. between October 23 and January 31, 1951. There will be no restrictions on Saturdays or Sundays.

Artificial Vinegar.—As a result of a judgment given recently in the High Court of Justice, a Code of Practice relating to vinegar and solution of acetic acid p. 55, "The Advertising, Labelling and Composition of Food," H.M. Stationery Office, (1949) has been withdrawn. The Court ruled that the application of the description "non-brewed vinegar" to a solution of synthetic acetic acid put up as a condiment was a false trade description and against the Merchandise Marks Act.

Olive Oil Imports Freed.—The Board of Trade announces that, from September 1, there are no restrictions on the private import of olive oil from the usual wide range of "permitted" countries to which the policy for the liberalisation of trade is applied. The concession applies to olive oil consigned from and originating in any of the permitted countries.

Tax on Home Wave Sets.—The Commissioners of Customs and Excise have decided that they will in future regard home permanent-waving outfits as chargeable at 33½ per cent. under Group 30 (a) of the Purchase Tax Schedule, instead of at 100 per cent.

Retail Trade in July.—According to Board of Trade statistics, weekly sales of large-scale detailers of chemists' wares in July were 12 per cent. higher than a year ago, while stocks at the end of the month were valued at 19 per cent. more than on July 31, 1949. The index of numbers of sales was 135. Trade of independent retail chemists showed no appreciable change in July 1949.

List of Proprietary Medicines.—Lists of proprietary medicines advertised direct to the public have been prepared by the Ministry of Health and Secretary of State for Scotland for the use of doctors taking part in the National Health Service. Its preparation was a consequence of a recommendation in the second interim report of the Cohen Committee (see *C. & D.*, July 8, p. 45) that it was undesirable to prescribe on form EC10 medicinal preparations that are advertised to the public.

LOCAL NEWS

President addresses Aberdeen Branch.— A regional meeting of the Aberdeen and North-Eastern Scottish Branch of the Pharmaceutical Society was held at Fraserburgh on August 31. The President of the Society (Mr. A. A. Meldrum) addressed the meeting on several matters of vital interest to every practising pharmacist. His address, as was intended, initiated a lively discussion, in which almost every member present took part. The Branch chairman (Mr. John Simpson, Banchory), reported briefly on the situation in the dispute with the Department of Health over the National Health Service. The meeting closed with votes of thanks to the President, the Chairman and to Mr. Gerrard, who had made the local arrangements for the meeting. The Branch intends to hold similar meetings in other centres of its area.

Conference Sports Results.— In the British Pharmaceutical Conference golf competitions held in Glasgow on September 8, Mr. W. McMaster won the Edmund White trophy and Herts Pharmaceuticals and Greig prizes; Mr. W. Laurie was runner-up.—The Conference bowling competition between rinks representing England and Scotland took place on Wellcroft Green, Glasgow, on the same day. The teams were:— England: Messrs. W. Millar, J. Reed, J.F. McNeal and G. Gardiner (skip); Scotland: Messrs. R.W.R. Wilson, R.B. Birrell, W. Peebles and W.S. Culbert (skip). Scotland won by twenty-two shots to sixteen.

Awards to Apprentices.— Scholarships provided by Timothy Whites & Taylors, Ltd., Leeds, under a Training Scheme for apprentices in the employ of the Company, have been awarded as follows:— £150 scholarships, Mr. J. R. Seymour, St. Albans, Herts.; Miss A. M. Naylor, Bradford; Mr. D. F. Colston, Leamington Spa; £75 scholarships, Mr. G. Barnett, Hull; Misses A. Blackmore, Smethwick, Staffs, and K. Currer, Sunderland. Five minor cash awards to first-year apprentices and nine to second- and third-year apprentices have also been made by the company.

Retirement Dinner.— The executive staff and representatives of Thompson & Capper Wholesale, Ltd., Liverpool, attended a dinner given by Alderman Edwin Thompson, J.P. (governing director of the company) in Liverpool on September 1. Mr. A. Pinnington, M.P.S., who recently retired from the position of senior representative after thirty years' service with the company, was the chief guest. Alderman Thompson made a gift of two armchairs to Mr. Pinnington and a letter was read from the works and office staffs expressing their good wishes.

Silver Wedding Presentation.— To honour the silver wedding anniversary of Mr. Philip E. Ross (joint managing director of Thornton & Ross, Ltd Huddersfield) and Mrs. Ross, a presentation of an inscribed silver salver and silver spoons was made on behalf of the employees in the works canteen on September 1. Mr. Ross, who was not aware of the intention until just before the ceremony, expressed thanks on behalf of Mrs. Ross and himself.

IRISH NEWS

Ulster Chemists' Association.— At the meeting of the Executive Committee of the Ulster Chemists' Association in Belfast on August 28, Mr. C. A. Quinn (vice-president) in the chair, votes of sympathy were passed on the deaths of Mr. E. A. Richey, Belfast, Mr. James Hunter, Kilrea, Mr. G. Faulkner, Cookstown, who were members of the Association and Mr. A. Mawhinney, a former member. A special resolution placed on record the Committee's appreciation of Mr. Richey as secretary and vice-president of the Association. The resignation of Mr. H. P. Cross from the committee for health reasons was accepted with regret. As a result of the tournament held by the U.C.A. bowlers, £11 10s. has been passed to the Northern Ireland Chemists' Benevolent Fund.

Mr. W. H. Boyd was nominated as the Employers' Representative on the local panel for Ministry of Labour tribunals. The following new

members were elected:- Mr. S. J. Marks, 237 Newtownards Road, Belfast; V. A. Mullan, Main Street, Dungliven, co. Londonderry and Mr. Edmund Murphy, 1 Monaghan Street, Newry, co. Down. The following were elected to associate membership - (pharmaceutical chemist) - William Gilmore; (assistant) - Mr. B. J. Mulhern; (apprentice) -, L. McCann. The retiring members of the Committee are Messrs. H. Campbell, R. Gibson, T. A. Gibson, J. N. Hogg, C. L. Gordon-Rattie, R. W. Shinner, A. Steede, and W. H. Mulholland.

Northern Ireland Council Election.- Nominations close on September for the election to fill four vacancies on the Council of the Pharmaceutical Society of Northern Ireland caused by rotational retirement. The retiring members are Messrs. S.E.Campbell, H.P.Crossin, James Dowell and H.F.Moore. All are eligible for re-election.

TOPICAL REFLECTIONS

Conference Chairman's Address

A report on p. 333 shows that the meeting of the British Pharmaceutical Conference at Glasgow has attracted a larger attendance than any meeting of the Conference since the war. Thus encouraged, the chairman (Mr. A.D.Powell) must have found the task of delivering his address easier than it could otherwise have been. Choosing "Fifty Years of Pharmaceutical Progress" as his subject, Mr. Powell made the British Pharmacopoeia of 1898 the starting point of his survey. Musk, then official, may well have been, as the chairman termed it, a relic of former methods of treatment, but I am not so sure about leeches - till, apparently, drawing blood. By the way, it is amusing to recall that the compilers of that Pharmacopoeia translated "hirudo" as "leeches" instead of "leech." Reverting to musk for a moment, I rather dispensed or saw dispensed pills containing musk not long before 1898. The plaster-masses mentioned by the chairman numbered twelve: The thought in the minds of the revising committee was, presumably, that the few then obsolescent might as well remain official till their acceptability had entirely disappeared. The same remark may be applied to the twenty pill-masses. In the printed version of the address, Mr. Powell made no distinction between hospital usage and private practice when remarking that, during the first twenty or thirty years of the present century, "drugs were usually administered for the purpose of alleviating the patient's condition." In hospital practice this was the case, and Sir Henry Dale's statement to that effect could easily be confirmed. But conscientious practitioners adopted a more active policy in their own practices. While acknowledging the "vis medicatrix Naturae," they aimed at helping it.

The Principles of Ehrlich

By a coincidence, Mr. Powell's reference to the pioneer work of Paul Ehrlich (1854-1915) is reinforced by your illustrations of the institute named after him (pp. 324-25). The position of Ehrlich as the founder of chemotherapy has seldom, if ever, been challenged. Several references to him are made in Dr. G.M.Findlay's third edition (Vol. I) "Recent Advances in Chemotherapy," reviewed in the C. & D. of September 2 (p.203). He was originally interested, Dr. Findlay states, in the differential staining of the intracellular structures of leucocytes. Contrary to a view then held in some influential quarters, he asserted - and proved - that parasites could be destroyed without destroying their hosts. In 1910 Ehrlich and Hata prepared the first of the arsenobenzene derivatives, arsphenamine. In his search for more potent chemotherapeutic remedies, Ehrlich had two guiding principles: (1) The idea of a drug which in a single dose would kill all the parasites in the host's tissues; (2) the concept of the chemotherapeutic index, first formulated as the ratio of the minimal curative dose to the maximal tolerated dose.

SCOTTISH CHEMISTS' REJOINDER TO MINISTER

IN a long memorandum released to the Press on September 6, the Secretary of State for Scotland (Mr. Hector McNeil) dealt with matters raised in a reply given by the Pharmaceutical General Council (Scotland) to his earlier statement (see C. & D., September 9, p. 316). The Minister declared (a) that the 8 per cent. cut was provisional only and had been imposed to protect the taxpayer, pending a final settlement by negotiation or arbitration; (b) that chemists would be paid back any money that they might have lost through the cut; and (c) that without a provisional cut it would be impossible to give retrospective effect to a final settlement that was unfavourable to chemists. It did not appear to him that the chemists' contention that the Government could recoup itself from sums already owing to contractors was, from the best legal advice available to him, valid.

In the first place, by no means all chemists were owed sums individually that could cover a reduction even though the total amount were sufficient. Secondly, retention of any of that money would be a breach of contract, and the plan could therefore not be operated without the prior consent of each of the 1750 individual contractors in Scotland. He had been considering what could be done to remove pricing difficulties which, he said, had been increased by lack of adequate premises and staff. The present situation was "far from satisfactory".

The Minister concluded with a tribute to those chemists - he did not mention how few they were - who had not threatened to withdraw from Service. "It is gratifying", he said, "that some chemists prefer to plead their case by the normal methods of negotiation and arbitration rather than by threats of withdrawal".

Pharmacists' Answer

After meeting to consider Mr. McNeil's reply, the Pharmaceutical General Council announced that it does not consider that the statement takes into account the necessary facts, nor offer a solution to the present deadlock. Whereas the Secretary of State looks upon the 8 per cent. cut as a sine qua non before further negotiation, the Council firm that chemists will enter into no negotiations while the cut is in force. Mr. McNeil is accused of trying to enlist public sympathy in an attempt to put Scottish chemists in the wrong, and the Council refuses to accept that the solution the chemists have offered is impracticable or legally impossible. It points out that in any case contracting chemists have not taken legal action against the Minister to recoup themselves of the 10 per cent. of payments that his Department has owed them for about a year. The Council finds it strange that the Minister has only now, after two years, admitted that the present pricing arrangements are unsatisfactory. The accommodation problem will not really be solved so long as the Department of Health for Scotland considers the bureau non-essential, and the Council considers that the Minister could have safeguarded the taxpayers' interests sooner and more adequately by establishing a pricing bureau that would have provided him with the facts.

NEW COMPANIES

SAMUEL BRIGGS, LTD. (P.C.).- Capital £1,000. To carry on the business of pharmaceutical chemists, etc. Samuel Briggs, M.P.S., 107 Grange Road, Darlington; and Kitty Briggs, directors. R.O.: 20 Bondgate, Darlington.

JOHN W. MILLER (CHEMISTS), LTD. (P.C.).- Registered in Edinburgh Capital £10,000. To carry on the business of Chemists, druggists, opticians, etc. B.C. Miller, John Foster and Dr. T. W. Miller, directors. R.O.: 211 Byres Road, Glasgow, C.2.

MARRIAGES

COMER-GREIG.- At St. George's Church, Felixstowe, on August 29, Donald William Comer to Harriet Dorothy Greig, M.P.S., Dunbar and Felixstowe.

SILVER WEDDING

MARSHALL-MACLEAN.- At 61 Albert Drive, Glasgow, on September 7, James Marshall, M.P.S., to Marion Macdonald Maclean. Present address: Maycrest, London.

DEATHS

LORD.- Recently, Mr. Robert Charles Lord, M.P.S., 74 Mountgrove Road, London, N.5. Mr. Lord qualified in 1916.

MCORIST.- On July 25, Mr. James McOrist, M.P.S., Zomba, Drummond Street, Muthill, Perth. Mr. McOrist qualified in 1924.

YOUNG.- On May 25, Mr. George Herbert Young, M.P.S., 20 Lansdale Avenue, Lea, Gainsborough. Mr. Young qualified in 1889.

WILSON.- As briefly announced in THE CHEMIST AND DRUGGIST last week, the death of Mr. Donald Cumming Wilson, B.Sc., A.H.-W.C., F.R.I.C., R.S.E., took place while he was on holiday at Boat of Garten, Inverness-shire, on September 4, aged fifty-two. Mr. Wilson joined the staff of T. & H. Smith, Ltd., Edinburgh, in 1919, was elected to the board of directors in 1941, and was appointed managing director in 1946. He was chairman of the Scottish Wholesale Druggists' Association, a member of the Council of the Association of British Pharmaceutical Industry, a director of the Edinburgh Chamber of Commerce, a member of the Edinburgh Merchant Company, a governor of the Heriot-Watt College, and elder of St. Ninian's Church of Scotland, Corstorphine, Edinburgh. It is regretted that Mr. Wilson was described in Late News last week as chairman of the company.

PERSONALITIES

MR. J. W. HICKS, M.P.S., Rothesay, has been appointed a Deputy Lieutenant for the County of Bute, Scotland.

MISS A. BOLLE, Dr. ès Sc. (part author of a paper read at the British Pharmaceutical Conference, Glasgow, on antagonism between non-ionic detergents and antiseptics, see C. & D., September 9, p.322) was presented recently to the Queen.

MR. LEONARD LONG (president, Pharmaceutical Society of Victoria, Australia) was present in person at the Glasgow meeting of the British Pharmaceutical Conference to receive and pass on a telegram of good wishes to the Conference from the Council of his Society. The telegram was read out by the Chairman (Mr. A.D.Powell) at one of the official luncheons.

BUSINESS CHANGES

BOOTS, LTD., have opened a branch at 128 Gloucester Road North, Filton, Bristol.

EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19, have appointed Mr. D. Gwynne Jones, B.Pharm., Ph. C., their medical representative for South Wales, and Mr. S.G.Goodman their chemists' representative for the western postal districts of London.

TRADE NOTES

Quinine for Export.— H. Jarvie & Co., Ltd., Scotia Chemical Works, Coatbridge, invite export inquiries for quinine made in their Scottish factory.

Additions to Range.— Penicillin oral tablets, A. and H., containing 100,000 units of crystalline penicillin G (potassium salt) in each tablet, are now available from Allen & Hanburys, Ltd., Bethnal Green, London, E.2, in tubes of ten tablets.

Nail Colour Prices.— The price per bottle of Gala nail colour (manufacturers: Gala of London, Ltd., Hook Rise, Surbiton, Surrey) was reduced on September 1 by one shilling and threepence. [Corrected note].

Holiday Closing.— The London offices of Edwards, Sons & Partners, Ltd., at 32 Shaftesbury Avenue, are closed until September 25. Until that date all correspondence should be sent to the Manchester offices of the company, 94 Market Street, Manchester, 1.

New Lines.— In accordance with information derived from recent clinical experience Ciba Laboratories, Horsham, Sussex, introduced on September 1 Priscol supplied in ampoules containing 25 mgm. in 1 cc. The new strength will eventually replace the 10-mgm. ampoule. A supplement to the company's price list was published on September 1.

Shown in Stockholm.—Manesty Machines, Ltd., Speke, Liverpool, 19, exhibited at the St. Erik's Fair, Stockholm, Sweden, recently, examples of their tableting machines, the Rotorgran oscillating granulator, a bench coating-pan with hot-air blower, and an electrically-heated automatic water still.

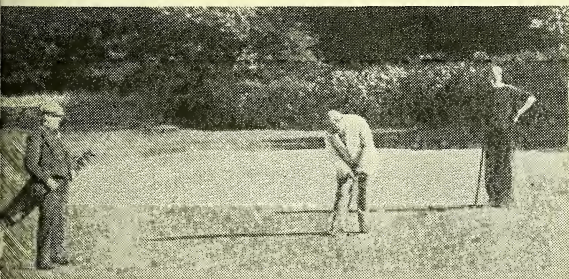
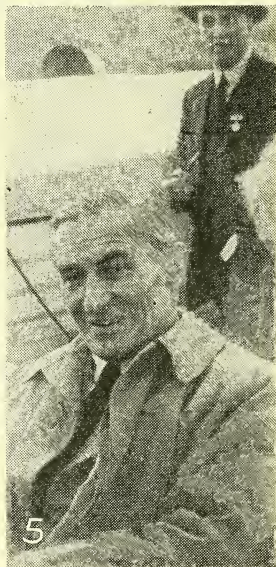
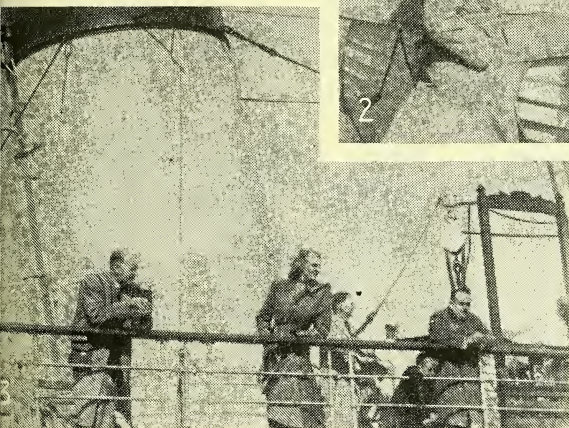
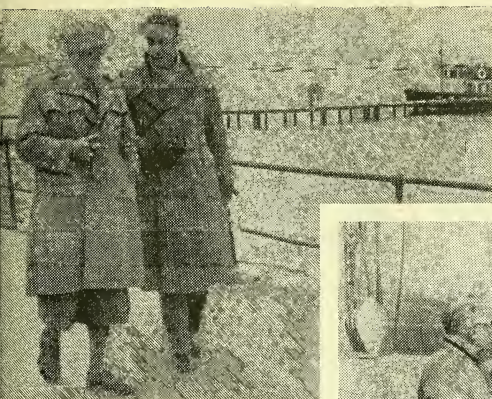
Bonus Offer.— For the remainder of the year Castellan No. 10 cough mixture and children's cough syrup are being supplied on bonus terms of thirteen to the doz., plus discounts of 5 per cent. on orders value £5, and 7½ per cent. on orders value £10. The manufacturers and sole distributors on behalf of the proprietors, J. McGuffie & Co., Ltd., Liverpool, 3, are Rodmill Chemical Co., Ltd., Liverpool, 3.

Non-Floating Toilet Tissue.— A toilet tissue which readily absorbs fluids and disintegrates and therefore sinks rapidly has been prepared by Racasan, Ltd., Cromwell Road, Ellesmere Port, Ches. It is stated to be of particular use in toilets where there are no flushing arrangements. The product is marketed under the name Racasan Non-Floating Toilet Tissue and is supplied in rolls weighing 6 oz. The rolls are packed in corrugated fibreboard boxes of 6 doz. for issue to the trade.

Household Cleaner in College Restoration.— To publicise Chemico household cleanser in the American market, the County Chemical Co., Ltd., Shirley, Birmingham, have issued a brochure entitled "An Interesting Restoration," produced by permission of the Provost and Fellow of Worcester College, Oxford University, with the co-operation of Heelas, Ltd., Reading. The brochure gives details of the history and architecture of Worcester College Chapel, leading up to a renovation of the interior. In the work of restoration the problem was to discover a medium to remove stubborn grime without harming fragile surfaces. After many cleansing agents had been tried without success the cleaning contractors decided to use Chemico glycerin-containing paste cleanser. The remarkably successful results are shown in a series of unretouched photographs in the brochure.

A FREELANCE CAMERA AT THE CONFERENCE

Photographs taken on 35-mm. film by Dr. H. Davis (chief pharmacist, Ministry of Health).

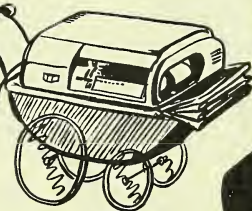


"No, but seriously, Monsieur Laurent . . ." Pacing the promenade at Rothesay, Dr. W. P. Kennedy (Ministry of Health) sets out to explain a moot point to the secretary of the Ordre des Pharmaciens. Scenery? While Mr. C. J. Eastland is free to take it in, the Society's registrar (Mr. F. W. Adams) is to turn his back on it to deal with a query from a Council member (Mr. T. Reid). 3. Mr. E. A. Cocklehurst prepares to photograph what Miss Joan Wilson (daughter of another Council member) finds interesting on the deck below. 4. Mr. F. G. Wells, golfer and Council member, addresses the ball, under observation from Mr. M. W. Paterson, Glasgow (right) and a caddy. 5. "Here's a seat where I can relax," thinks Mr. Hugh N. Linstead, M.P., contrasting it, perhaps, with Putney. But is that the boss in background?



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*ULSTER'S MARGINS
HIS CARE*



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WITH THE COLOURS
OF HIS CLAN



ICER
RER
WIFE



Professor MIRIMANOFF
COURAGEOUSLY
REPLIES IN FRENCH



D.E.
SPARSHOTT
FOND
OF
COMPANY



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CONNECTION
WITH A
CERTAIN
MIXTURE

A.W. BULL
(NOT TO BE CONFUSED
WITH HIS FATHER)

Dr. W. P.
KENNEDY

NOTES
PROGRESS
FOR THE
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PHARMACEUTICAL
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Kest tablets

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circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied Trades throughout the World

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Glasgow's Third Conference Meeting

THE 1950 meeting of the British Pharmaceutical Conference, the third to be held in Glasgow in the series of eighty-seven, attracted a post-war record total of members from both sides of the border and from overseas, and it is a matter for regret that a printing-trade dispute in London has made it impossible for this paper to give to the proceedings the full and prompt publicity they deserve. The dispute has now ended (too late to be of much benefit in this week's issue) and it is hoped to make good in the weeks to come at least some of the deficiency.

Interest in the Science Sessions, as reflected in the attendances, was maintained at an exceptionally high level throughout, after a crowded commencement that severely taxed the available accommodation. The new system of asking authors to send abstracts of their papers achieved its purpose of speeding-up the proceedings, though the number of participants in the discussions might have been greater if the circulation of papers prior to the Conference had been at once wider and earlier. No blame, of course, attaches to the Conference organisers for that shortcoming, since it was but another by-effect of the printing situation. If, however, future meetings receive the same numerical support as the one just ended, a larger number of copies of the papers will have to be budgeted for in the future and made available to those who want them. Given all opportunity for advance study of the papers themselves, still further compression

of some of the read versions might usefully be carried out, with benefit to the liveliness and variety of comments from the floor.

The subjects of the papers, ranged over a fairly wide field, with pharmacognosy a little less in evidence, perhaps, than in other recent years. Practical problems to do with tablet-making, arsenic limits, and senna constituents were among the most popular topics, lending colour to Mr. A. W. Bull's contention that strictly pharmaceutical papers should command a readier acceptance than more abstruse researches in allied sciences.

The mid-week Branch Representatives' meeting (reports of which have had to be held over until later) was also well attended. Some notable gaps may be attributed to a feeling among some of the more distant branches that it was not worth while to send representatives to debate reports that they had had small chance of discussing locally beforehand. As it was, many of those present had scarcely had time even to read the reports before the meeting opened.

Scotland's Stand

That the scientific forum of pharmacy should have been held this year in Scotland, the scene of the greatest political activity in the profession at present, was opportune and appropriate, and it is noteworthy that members of the Pharmaceutical General Council were summoned to Glasgow for a special meeting during the week. Not the least valuable outcome of the Glasgow meetings may be an increased solidarity between National Health Service contractors below and above the border. Writing from London, we may assure our Scottish friends that England wishes them well in the stand they have taken.

ALTHOUGH members of the London Society of Compositors returned to work on September 13, many of the pages in the current issue had to be prepared before their return. For any shortcomings in the amount and presentation of news and other material we must therefore ask again the indulgence of readers and advertisers.



British Pharmaceutical Conference, Glasgow, 1950

SCIENCE SESSIONS

FURTHER papers (see also *C. & D.*, September 9, p. 332) were read at the Science Sessions on September 5, including the following:—

Bacterial Survival Under Spray Drying

II. BACTERICIDAL EFFECTS OF CERTAIN SUBSTANCES DURING THE PROCESS
KENNETH BULLOCK and E. A. RAWLINS
[ABSTRACT]

IN previous communications the production of spray-dried bacterial cultures has been described and some of the effects of heat and of storage on them examined. It was shown that the spores of *Bacillus subtilis* were not killed during the drying process and maintained their viability on storage. It was thought that the addition of a bactericide (in small initial concentrations) to the bacterial suspension before it was dried might result in the production of a sterile powder. If a volatile bactericide were used, it might contain traces at most. Such a process should be suitable for the production of injections and food products and the process would be useful for the sterilisation of thermolabile substances. The experiments described show that few substances are capable of producing sterility when used for the purpose. *B. subtilis* spores have been spray-dried, using various substances with substances known to be bactericidal in solution. Of these, only sodium hypochlorite and formaldehyde were found capable of producing sterility in the resultant powders. Phenols, synthetic detergents and glycols killed varying proportions of the spores but none showed a high efficiency. The reasons are discussed. Both sodium hypochlorite and formaldehyde were found to be largely inactivated by peptone, though in its presence formaldehyde produced sterile powders using an initial concentration of 0.4 per cent. In the absence of peptone initial concentrations of 0.02 per cent. of formaldehyde and 0.001 per cent. of sodium hypochlorite were sufficient. An initial concentration of 0.01 per cent. sodium hypochlorite left no detectable amount of available chlorine in the powder; of formaldehyde less than 0.01 per cent. Various common salts were found to exert a lethal action on the spores, but

sodium phosphate and sodium acid phosphate produced no significant mortality
[From the department of pharmacology, University of Manchester.]

Stability of Injection of Morphine Sulphate

G. E. FOSTER, MISS J. MACDONALD, and T. D. WHITTET
[ABSTRACT]

THE authors have investigated the effect of sodium metabisulphite on the darkening of solutions of morphine sulphate and the effect of caps, treated and untreated with sodium metabisulphite, on those solutions when stored in vaccine bottles. Samples of a solution of morphine sulphate 2.5 per cent. together with 0.2 per cent. of chloro-cresol in water for injection were prepared in Clinbritic bottles, sealed, sterilised by heating at 98° to 100°C. for thirty minutes. The solutions, corresponding to the B.P. 1948 injection of morphine, were used as controls and even when freshly prepared had a distinct brown colour. Further similar samples were prepared except that 0.1 per cent of sodium metabisulphite was added. Half of the samples were stored in Clinbritic vaccine bottles sealed with rubber caps which had been soaked for 48 hours in a 0.2 per cent. solution of sodium metabisulphite. The remainder were stored in bottles sealed with rubber caps which had not been so treated. All these solutions were water-white at sterilisation. The samples were stored under various conditions and were examined and tested from time to time. Spectrographic measurements and colorimetric estimations were made in order to follow the changes in morphine injection on storage, the colorimetric method proving useful for the detection of pseudomorphine. Sodium metabisulphite retarded but did not prevent the discoloration of morphine injection, which did not appear to be due to the formation of pseudomorphine. Tests revealed no less analgesic activity in the discoloured samples. Little, if any, difference in behaviour was observed between caps treated and untreated with sodium metabisulphite.

[From the Wellcome Chemical Works and University College Hospital].

DISCUSSIONS ON THE SCIENCE PAPERS

The first paper, on the value of potato starch and alginic acid, was read by Mr. C. V. Ridout to an audience of about 200 members.

Mr. N. ALLPORT, London, asked whether alginic acid would affect the running of the granules in a rotary machine and whether the use of 10 per cent. alginic acid was economically feasible. Mr. R. NUTTER SMITH, Nottingham, emphasised that the phenacetin, etc., for tablet pressing should be of 80 or 100 powder. What sieve had the authors used? It would have been possible to have obtained the authors' results by poor technique. Had the authors investigated the use of alginic acid with starch (comparable with the continental practice of using agar or pectin with starch)? He was surprised that the disintegration time of barbitone was 75 minutes. The keeping tests over the three months proved of no significance. Much more must be known before the B.P. is altered. The work, however, was worth pursuing.

Mr. A. W. BULL, Nottingham, pointed out that it was very difficult to keep the compression constant on a hand machine. What deviation was there from the average disintegration time of the tablets? Table 7 showed that the disintegration time increased with storage more markedly when alginic acid was used than when starch was used. Was that significant? Mr. D. SMITH, Dagenham, asked whether tablets made with alginic acid were as white as those made with starch. Dr. E. F. BRISANT, Dagenham, said that the authors had combined graphs 1 and 2 to form one uniform graph. Mr. GILLHAM, Leeds, asked whether the moisture content of the starch used had been standardised. Dr. F. RILEY, London, said that tablets might not necessarily be the most effective form therapeutically for administering drugs. Other factors than disintegration might affect the effectiveness of tablet medication - for example the rate of solution from the particles of the disintegrated tablets. He had found that with certain tablets the rate of release of active principle was so slow that the material was stabilised before the therapeutic concentration of it could be attained in the system. It might therefore be of little significance whether the disintegration time were 15 or 30 minutes so long as the active ingredients were not metabolised too quickly. Mr. HOWARD, London, asked whether the authors had studied the effect of the lubricants used in determining the disintegration time.

Replying, Mr. RIDOUT said that he saw no reason why his results could not be applied to rotary machines. He told Mr. Nutter Smith that a No. 22 sieve had been used and that feeding the machine by hand had made more constant results possible. Starch and alginic acid together had not been used, as the paper was primarily a comparison of the two substances. To Mr. D. Smith he said that the colour of tablets made with alginic acid was off-white. To Mr. Howard he explained that in the authors' experiments the lubricant had been kept constant.

Opening the discussion on the second paper, MR. NUTTER SMITH, Nottingham, commented that the paper was by a practising tabletmaker who was apparently satisfied with starch as a lubricant. The shaking test, he said, was one that required to be carried out under standardised conditions. "Normalcy" of friability was not always apparent, hence some tablets must be made soft at the start to allow for subsequent hardening. It must be pointed out that there was no relation between hardness and disintegration. He had found it of importance in practice that the starch should be dried when added last, and asked why maize starch had been preferred to potato starch. Under the conditions of storage adopted by the authors, absorption of moisture would occur when the container was opened. DR. G. E. FOSTER, Dartford, asked how the hardness of the tablets had been measured.

CLOSING SESSION

THE Closing session of the 87th British Pharmaceutical Conference was held in Berkeley Hall, St. Andrew's Halls, Glasgow, on September 8, at 4.15 p.m. under the chairmanship of MR. A. D. POWELL. The Chairman was supported on the platform by Messrs. A. A. Meldrum, L. McAslan, H. Treves Brown, H. G. Rolfe, S. Hughan, A. Officer, R. C. Wilberforce, T. D. Whittet, B. A. Bull, Miss M. A. Burr, H. Deane, Drs. G. R. Boyes, N. Evers, C. H. Hampshire, E. F. Hersant, T. E. Wallis and Professors H. Berry and H. Brindle. He called on DR. C. H. HAMPSHIRE to propose a vote of thanks to the Conference Local Committee. From experience of thirty-nine Conferences, Dr. Hampshire said, he had never remembered one which was more happily conducted or successful. He wished to include the Ladies Committee in the vote of thanks. Their excellent work had been obvious to all during the week. They had assisted considerably with the finances of the Conference and a great deal of the work had been done behind the scenes many months beforehand. Mr. C. J. Eastland, London, seconded the vote of thanks which was passed with acclamation. The Chairman then presented Mr. S. Hughan (chairman of the Local Committee) with books from the Bell and Hills fund in commemoration of the Conference.

Replying, PROFESSOR H. BERRY expressed the thanks of the officers and Executive and himself for the honour paid to them. DR. G. R. BOYES presented the Treasurer's report.

Invitation to Harrogate

MR. R. WILBERFORCE, Harrogate, said that on behalf of the Mayor and Corporation of Harrogate and the Harrogate Branch of the Pharmaceutical Society he wished to invite the Conference to their town in 1951. It was a particularly suitable place for a Conference as it was equidistant from Lands End and John o'Groats, London and Edinburgh, and from the East and West coasts.

Annual Report

MR. H. TREVES BROWN (joint secretary of the Conference) presented the annual report for 1950. The officers nominated for the year 1950-51 were as follows: President: (ex-officio) The President of the Pharmaceutical Society of Great Britain. Chairman: Professor H. Berry. Vice-President: (who held the office of President prior to 1923) Mr. E. Saville Peck. Vice-Chairman: Mr. R. R. Bennett, Drs. C. H. Hampshire, F. W. Crossley-Holland, Messrs. H. Deane, H. Humphreys Jones, Dr. T. E. Wallis, Professor H. Brindle, Mr. B. A. Bull, Dr. Norman Evers and Mr. A. D. Powell. Treasurer: Mr. G. R. Boyes. General Secretaries: Messrs. H. Treves Brown and H. G. Rolfe. Other members of the Executive: Dr. K. Bullock, Messrs. A. G. Fishburn, J. W. Hadgraft, Dr. E. F. Hersant, Professor J. P. Todd, Mr. T. D. Whittet with the following nominated by the Council of the Pharmaceutical Society of Great Britain: Miss M. A. Burr, Messrs. F. C. Wilson and T. Reid, and the following ex-officio: The President of the Pharmaceutical Society of Ireland, the President of the Pharmaceutical Society of Northern Ireland, the Chairman of the Executive of the Scottish Department, the Chairman of the Local Committee and the local secretary.

The Chairman introduced BAILIE JOHN MCASLAN (Convenor of Health and Welfare of the City of Glasgow) who was present to bid farewell to members on behalf of the Lord Provost of Glasgow. Mr. Powell replying, thanked the officials of the Corporation of Glasgow and the Lord Provost for the warm welcome the Conference had received. The Conference was glad they were leaving an official record of the occasion in the form of the signatures of all the Executive in the Glasgow visitors book.

SIDELIGHTS OF THE CONFERENCE

University Reception

Members of the Conference were received in the Bute Hall of the University of Glasgow by the Principal and Vice-Chancellor (Sir Hector J. Hetherington, K.B.E., D.L., LL.D., Litt. D.) on the evening of September 6. In a speech of welcome Sir Hector said he had a personal interest in pharmacy because his father had been a chemist in Moffatt and he himself had learned how to prepare tinctures and make pills. A. D. Powell (chairman of the Conference) replied. Refreshments and dancing followed.

Conference Banquet

The Conference banquet was held in the Grand Hall, St. Andrew's House, Glasgow on September 5, under the presidency of Mr. A. A. Meldrum. Proposing the toast The City and Corporation of Glasgow, Mr. Meldrum mentioned that the City has a close connection with pharmacy, and that its University was among the first to award a degree in pharmacy. The Lord Provost of Glasgow, Mr. Victor D. Gair, M.B.E., T.D., chief guest, replied. Mr. D. S. Anderson, B.Sc., D.L., A.R.I.C., M.I.Mech.E., (director, Royal Technical College, Glasgow) proposed the toast of the British Pharmaceutical Conference. Pharmacy had progressed rapidly during recent years; he said, and the industry had changed from a shop marked essentially by "port and board lights" and an air of benevolent mystery. Mr. A. D. Powell (chairman of the Conference), replied. Dr. H. Davis, (chief pharmacist, Ministry of Health) proposed the Guests and Professor Stanley Pringle, (Regius Professor of Materia Medica and Therapeutics, University of Glasgow), replied.

Conference Ball

Over six hundred members and their guests attended the final function of the Conference - the ball, held on September 8. During the evening prizes were awarded to the winners (see p.338) of the sports competitions and presentations were made to the officers of the Conference and their ladies. Mr. M. L. Laurent, on behalf of the Ordre des Pharmaciens of France, presented Messrs. A. A. Meldrum and A. D. Powell (Conference president and chairman) with ancient drug boxes formerly part of a Paris collection.

Conference Excursion

A bright sky - particularly welcome after the recent downpours of rain - greeted members who embarked on the S.S. Queen Mary II at Waverley Wharf, Glasgow on September 7 at 9.30 a.m. for the Conference excursion. After a short delay caused by a staff dispute, the ship started under way and took members down the Clyde, first by docks and then by busy shipyards. The river widened, industry was left behind, and the Bute Head appeared to the right hand. Despite scattered rain showers, and numerous rainbows, watching members were rewarded by a fine view of Ben Lomond (3,192 ft.). Below decks, where at times a welcome shelter was sought from squalls, coffee was served, and later, after passing Port Glasgow, Greenock, Gourock and Dunoon, members went ashore at Rothesay, capital of the Isle of Bute, for lunch and the taking of an excursion photograph. After the party re-embarked, the ship steamed against, at times, a 70 miles per hour gale through the narrows of Bute. The narrows were passed uneventfully. Opposite Kames, the ship turned round and retraced her course through the Highland Narrows to Rothesay Bay, and then crossed the Firth of Clyde (where those on deck got near views of gannets and cormorants) to Wemyss Bay. From there a special train returned the then sun and wind-tanned voyagers to Glasgow.

CORRESPONDENCE

Committee of Action

SIR,- In response to requests from individual pharmacists and branches of the Pharmaceutical Society throughout the country, the Committee of Action has drawn up a statement of its constitution, aims and objects as follows:- The Committee of Action is a group of pharmacists representing all sections of pharmacy, which meets at least once every month. Its aims and objects are:- Unity in pharmacy through the medium of the Society. Equalisation of remuneration in all sections of pharmacy up to a standard worthy of our professional training and responsibility. To take a live interest in Council activities in order to ensure that resolutions passed at Branch Representatives' meetings are implemented expeditiously. To fight, by all means available, any cuts in remuneration, from whatever source. To infuse enthusiasm and a sense of urgency into all members and branches of the Society.

Eltham, London, S.E.9.
(Telephone: Eltham 3248)

Yours faithfully,

C.J.STRONG, M.P.S., Secretary

Modern Youth

SIR,- The letter from D.J. on youth and middle age (C. & D., August 26, p. 296) deserves more attention than it is likely to get. The chemist's assistants and apprentices are not any better than those in any other craft. Wages are of no importance when it comes to hard work. I would like to know the reason for this work-shyness. Surely some of your readers can put forward a suggestion which could be acted on by the harassed proprietor. The staff have shorter hours, all set to eat plenty of food and to have plenty of sport. What is the matter?

Yours faithfully,

"ANOTHER CHEMIST"

A Caricature of British Youth?

SIR,- In your August 26 issue (p.296), "D.J." expounded at some length his views on modern youth. These views - or caricatures - are not original. Generation after generation has had similar accusations hurled at its head. He wrote of "a dreamy sort of type - like old fossils - Dreamy Daniels, blase, apathetic, soft and half-baked youngsters". I assume that after "years in the Dominions", he is well acquainted with this country and its growth. If D.J. seems a trifle disillusioned, well he might be, since "Australian youth is trained work hard - play hard". Who does the training? Is D.J. evading a responsibility? His unfortunate experience with employees seems to be entirely due to one (young?) headmaster though possibly the Head had recommended his pupil not entirely on the basis of being able to wave a duster or pack a parcel, and the unfortunate was interviewed by D. before being accepted. Perhaps D.J.'s pupil packed up in disgust at hearing so much of others' abilities - he probably lost faith in himself. To D.J. and those who think like him I say that the youth of today are being offered far better opportunities than they were and those opportunities are being grasped with both hands. Let him think again, and write a general apology to the youth of Britain - or return to Australia.

Yours faithfully,

Bournemouth.

F.J. ELTON

TRADE REPORT

quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

Essex Street, W.C.2, Sept. 13

The past week has seen a substantial advance for PHARMACEUTICAL and FINE CHEMICALS on both the home-trade and export account. Prices are still rising. Increases have been announced in the rates for BISMUTH SALTS. A further advance in the cost of metal has resulted in increases in prices of ZINC OXIDE and CALAMINE. Other prices are noted for CREAM OF TARTAR and TARTARIC ACID, ROCHELLE SALT and SEIDLITZ POWDER. EMETINE preparations are dearer.

A good general inquiry is reported for CRUDE DRUGS on the London market, but business has been held up by shortages of supplies. Cape ALOES, for example, is wanted badly but there are still no offers from South Africa. A small supply of Russian ERGOT has been selling on the spot at 30s. per lb. Portuguese shippers of opium are asking about 36s. per lb., c.i.f., but few London merchants are prepared to pay that price. The rise in the price of opium some weeks ago was brought about by a more favourable exchange rate for the Spanish peseta and, it is reported from Lisbon, by speculative activity by Portuguese dealers. Lately, however, the peseta has fallen back to some extent, and it is thought that increased supplies may now come on the market. Chinese rough and RHUBARB is selling at from 7s. 6d. to 8s. 6d., duty paid. The Tinnevely MONA wet crop is reported to be a failure owing to lack of rain; recent c.i.f. quotations for f.a.q. No. 3 leaves have been at 10s. per lb., approximately the spot value for that grade. Inferior Alexandrian pods for the spot have made from 6s. 9d. to 7s. 6d. Stocks of KOLA NUTS have been cleared from the market. Higher prices are asked for Ceylon PAPAIN to come forward, and the spot market is gaining strength. NEGA is difficult to find on the spot; current quotations have advanced to 4s. 6d., c.i.f. A brisk trade has been done in export in ELEMI, and prices have been worked up. OLIBANUM (siftings) is making higher prices. There are no offers of Paraguayan or Colombian IPECACUANHA from the origins; any stocks on the spot are worth 38s. 6d. per lb. Supplies of GENTIAN on the spot are negligible; the market remains firm. GUM ACACIA, Soudanese cleaned sorts, is steady at 99s. per cwt. on the spot. WAXES have been active markets; there are now few offers of BEESWAX and supplies of CANDELILLA are low. In SPICES, African GINGER on the spot is firmly held at 335s. There are offers of Zanzibar CLOVES at 2s. 4d. per lb. (September-October shipment, 1s. 9d.,

c.i.f.). PIMENTO is scarce and 1s. 8d. per lb. has been paid for spot supplies.

With the exception of Chinese ANISE, which is steady and quiet, the ESSENTIAL OILS show a general firmness. Spot supplies of CITRONELLA, LEMONGRASS and GERANIUM are scarce, while forward prices of those oils continue to rise.

U.S. Drug and Chemical Report

New York, September 8

CHEMICAL prices continue to move upward reflecting the shortages of basic materials and rising costs. In PHARMACEUTICAL and FINE CHEMICALS markets demand has been brisk. ATROPINE prices, however, have eased as a result of competitive conditions: the SULPHATE is now available at \$5.75 per oz. or 50 cents below previous levels. THYMOL has been in good demand and, owing to current shortages, supplies are commanding a premium over makers' prices. Both BROMIDES and CITRIC ACID are firm at recently advanced prices. SULPHONAMIDES are receiving a good demand, and prices are fully maintained. A steady inquiry has been noted for CRUDE DRUGS, but limited offerings and uncertainty over future supplies are hampering business. The BALSAMS are strong markets, with COPAIBA quoted at up to 70 and 75 cents per lb. In ESSENTIAL OILS markets there has been a brisk demand and with current shortages, prices have been fully maintained.

Exchange Rates on London

Rates at the opening on Wednesday morning were:—

Centre	Quoted	Rate
*Alexandria ...	Piastres to £	97½—97½
Amsterdam ...	Florins to £	10.63—10.65
*Australia ...	£A to £	125—125½
*Bombay ...	Shillings to rupee	1/5½—1/6½
Brussels ...	Francs to £	139.90—140.10
Copenhagen ...	Kroner to £	19.32—19.36
Dutch East Indies	Florins to £	Suspended
Dutch West Indies	Florins to £	5.27½—5.29
*Hong Kong ...	Shillings to \$	1/2½—1/2¾
*Israel ...	£I to £	99½—100½
*Karachi ...	Shillings to rupee	2/1¾—2/1½
Lisbon ...	Escudos to £	80.35—80.65
Manilla ...	Peso to £	5.60—5.65
Montreal ...	Dollars to £	3.07½—3.08½
New York ...	Dollars to £	2.79½—2.80½
*New Zealand ...	£NZ to £	100½—101
Oslo ...	Kronor to £	19.98—20.02
Paris ...	Francs to £	979—981
Rio de Janeiro ...	Cruzeiros to £	Braz. a/c
*Singapore ...	Shillings to \$	2/4½—2/4¾
Stockholm ...	Kronor to £	14.47—14.50
*Teheran ...	Rials to £	89.40—91.00
Zurich ...	Francs to £	12.23—12.26

*Free market rates; remainder Bank of England.

Pharmaceutical Chemicals

ASCORBIC ACID.- 1-kilo lots for the home trade are £14 per kilo; 500-gm., £14 10s. per kilo

BISMUTH SALTS.- Prices were advanced on September 6. New rates for CARBONATE are as follows:-

QUANTITY	CONTAINERS					
	1-lb.		7-lb.		28-lb.	
	s.	d.	s.	d.	s.	d.
1 cwt.	18	8	18	5½	18	4
28 lb.	18	11	18	8½	18	7
7 lb.	20	6	20	3½	-	-
4 lb.	21	2	-	-	-	-
1 lb.	21	9½	-	-	-	-

CITRATE is 1s. 9d.; SALICYLATE 2s. 9d.; SUBGALLATE, 8d.; and SUENITRATE, 2s. 6d. per lb. less than above scale.

CREAM OF TARTAR.- Home trade rates per cwt. are now as follows:- 10-cwt. lots, 152s.; 5-9 cwt., 153s.; 2-4 cwt., 154s.; 1 cwt., 155s.; delivered.

CALCIUM GLUCONATE.- Quantities of upwards of 3 cwt. are quoted at 3s. 6d. per lb.; 1 cwt. to 2 cwt., 3s. 7d. per lb.; smaller quantities up to 3s. 10d. per lb.

EPHEDRINE.- in 100-oz. lots. ALKALOID is 11s.; HYDROCHLORIDE, 6s. 6d.; and SULPHATE, 7s. 6d. per oz.

EMETINE.- Dearer. HYDROCHLORIDE in 32-oz. lots is now 240s. per oz. 16-oz., 242s. 6d.; 4-oz., 245s.; 1-oz. 252s. The BISMUTH IODIDE in 32-oz. lots is 124s. 6d. per oz.; 16-oz. 126s.; 4-oz. 127s. 6d.; 1-oz., 129s. PERIODIDE is quoted at 203s. 6d. per oz. in 16-oz. lots under 16-oz., 208s. 6d. per oz.

LACTOSE.- English, 5-ton lots in 2-cwt. non-returnable kegs, is £130 per ton; 10-cwt. lots, £133 10s. per ton; less than 10-cwt., £135s. per ton. In 1-cwt. non-returnable kegs prices are 1s. more, and in 1-cwt. paper-lined bags, 5s. per cwt. less than the above rate.

METHYL SALICYLATE.- Current rates are as follows: Winchester, 2s. 8½d. per lb.; 56-lb. lots in demijohns, 2s. 7d.; 1-cwt., in demijohns or carboys, 2s. 6½d.; 5-cwt. 2s. 6d.; net.

POTASSIUM ANTIMONYLTARTRATE.- Quotations are around 7s. to 7s. 4d. per lb. The SODIUM salt is available at about 9d. per lb. for small quantities. ANTIMONIOUS OXIDE, B.P.C., is 6s. per lb.

ROCHELLE SALT.- Home trade rates per cwt. for powder or granular salt are 5-cwt., 140s.; 1-cwt., 142s. 6d. Crystal is 2s. 6d. per cwt. more. SEIDLITZ POWDER, ordinary strength is now 109s. 3d. per cwt. in 5-cwt. lots and 111s. 3d. in 1-cwt. lots; for the same quantities extra strong is 117s. 6d. and 119s. 6d. per cwt., and double strength 122s. 6d. and 124s. 9d. per cwt.

TARTARIC ACID.- Home trade rates per cwt. are now as follows:- 10-cwt. lots, 175s.; 5-9 cwt., 177s.; 2-4 cwt., 179s.; 1-cwt., 180s. delivered.

ZINC OXIDE.- Prices have been advanced by £17 10s. per ton. B.P. quality is now £150 15s. per ton. CALAMINE in 1-cwt. lots is now 2s. 3d. per lb., and ZINC CARBONATE 2s. 2½d. per lb.

Crude Drugs

BENZONIN.- Sumatra No. 1 on spot is offered at from £18 to £20 per t.; forward, £17 15s., nominal, c.i.f. Siam loose almonds, now ending, 25s. to 32s. 6d. per lb., as to grade.

CAMPHOR.- Chinese refined (B.P.) powder, 4s. 3d.; B.B. grade, 5s. 10½d.; ¼-oz. tablets 5s. 3d. to 5s. 6d.; 2½ lb. slabs, 4s. 3d. to 4s. 6d.; all duty paid, spot London.

CASCARA SAGRADA.- 1950 peel is quoted at 280s., duty paid, ex tariff.

COCOA BUTTER.- The maximum price has been increased from 4s. 4½d. to 5s. 9d. per lb., as from September 10.

MENTHOL.- Scarce. Chinese, 102s. 6d., nominal, duty paid. September-October shipment from Hongkong, 97s. 6d., c.i.f.; November-December, 88s. 6d., c.i.f. No Brazilian available.

SENEGA.- Firmer. Spot, 16s. per lb., nominal; for shipment, 15s. 6d., c.i.f., quoted.

SENNA.- Tinnevelly leaves, for September shipment, f.a.q., No. 1, 5s. 3d.; No. 2, 1s. 1½d.; No. 3, 1s.; c. and f. Alexandrian broken leaves, 9d. per lb., spot.

SHELLAC.- F.O.T.N. pure, on the spot, is now quoted at 330s.; F.O. standard 1, 340s.; and fine orange, 365s. to 420s. per cwt., nominal.

WAXES.- Supplies of BEES' scarce. Dar-es-Salaam, 475s. per cwt., spot; Lindi, 475s., spot. Benguela, September-October shipment, 50s., c.i.f.; Sudanese, September-October, 430s., c.i.f. CANDELILLA.- Scarce. Spot, 530s. per cwt.; September-October, 525s., c.i.f.

ARNAUBA.- Fatty grey on spot, 920s. per cwt.; afloat, 875s., c.i.f.; September shipment, 850s., c.i.f.; September-October, 840s., c.i.f. Prime yellow, 1100s. per cwt., spot; afloat, 1060s., c.i.f.; September-October shipment, 1050s., c.i.f. OURICURI.- 99.5 per cent. pure, October-November shipment, 795s. per cwt., c.i.f. 2.7 per cent., 35s., spot.

Essential and Expressed Oils

ANISE.- Quiet. Drums are quoted at 9s. 9d. per lb., spot; September shipment, 9s. 6d., c.i.f.

BERGAMOT.- Firmer. Spot supplies are quoted at 40s. per lb.; for shipment, 39s., c.i.f.

CITRONELLA.- Ceylon, 10s. 6d. per lb., spot, nominal; for September-October shipment, 10s. 6d., c.i.f., quoted. Java, for shipment, 6s. 9d., c.i.f.

LEMONGRASS.- Spot, 19s. 6d. per lb.; September-October shipment 8s. 6d., c.i.f., sellers.

PALMAROSA.- Supplies on the spot are from 50s. to 51s. per lb. upwards; 51s. 9d., c.i.f., reported paid for September-October shipment.

PEPPERMINT.- Chinese in drums, 35s. per lb., spot; in cases, 37s.; September-October shipment from Shanghai, 31s., c.i.f., quoted for drums.

TRADE MARKS

(From the "Trade Marks Journal", August 23)

For soaps and detergents (3).- "METEOR"; by Sunshine Bleach (Hillington), Ltd., Glasgow, E.1; 667,055.

For soaps, cosmetics and non-medicated toilet preparations (3).- "OLD LACE"; by French & Scott, Ltd., London, W.1; 674,816.

For non-medicated toilet preparations for the hair (3).- ROOTSTREN by Harry Beck, London, N.W.2; 688,944.

For perfumes and non-medicated toilet preparations (3).- "ATKINSON" on label device; by J. & E. Atkinson, Ltd., London, W.1; 689,012.

For disinfectants (5).- "METEOR"; by Sunshine Bleach (Hillington) Ltd., Glasgow, E.1; 667,056. "ATSOL"; by Wimsol, Ltd., Keighley; 687,587. "JEFCOL"; by Jefferies Chemical Co., Ltd., London, S.E.2; 687,976.

For insecticides (5).- "MESCO BRAND" on label device; by Medicine & Edible Oil Supply, Co., Ltd., London, N.1; 667,616. "DITREEN"; by Shell Co., of Portugal, Ltd., London, E.C.3; 686,816.

For sanitary and veterinary preparations and disinfectants (5).- "EPIX"; by Parkinsons, Ltd., Burnley; 685,335.

For pharmaceutical preparations (5).- Circular device of ewe's head by Aries, Ltd., London, E.C.1; 676,641. "TESTREX"; by Schering Corp., New Jersey; 687,352.

For all goods (5).- "MYLOPEN"; by Glaxo Laboratories, Ltd., Greenford; 686,384. "FIMOL"; by Sofia Del Busto, Madrid; B688,04

For medicated sugar confectionery (5).- "WAYFARERS"; by The Eclipse Candy Co., Ltd., Salford; 688,918.

For medicated preparations for the hair (5).- "ROOTSTREN-M"; by Harry Beck, London, N.W.2; 688,945.

COMING EVENTS

Tuesday, September 19

NATIONAL ASSOCIATION OF OPTICIANS, Grosvenor Restaurant, Gordon Street, Glasgow. Annual dinner and dance.

Wednesday, September 22

LONDON CHEMISTS' GOLFING SOCIETY. Fixture at Brookmans Park Golf Club, Hatfield (Telephone: Potters Bar 2487).

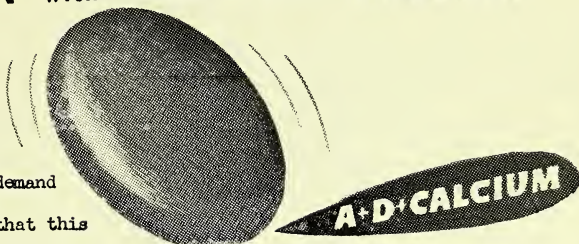
NORTHUMBERLAND AND DURHAM CHEMISTS' GOLFING SOCIETY, at 2.30 p.m. Fixture at Ponteland.

Thursday, September 21

DUNDEE AND EAST SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Mathers Hotel, Dundee at 7.30 p.m. Miss M. A. Burr, M.P.S., on "Pharmacy Today".

GUILDFORD BRANCH, PHARMACEUTICAL SOCIETY AND ASSOCIATION, Eashing Restaurant, Guildford, at 7.30 p.m. Film show, "Birth of a Drug".

Introducing

ADEXOLIN with CALCIUM TABLETS

Continuing counter demand

for Adexolin means that this

new member of the Adexolin range is of very special importance to you

... and with winter just ahead, there could be no more timely moment for

its introduction. Each Adexolin with Calcium Tablet contains three

nutritional factors of accepted value in securing winter 'well-being' -

vitamin A (6,000) units, vitamin D (1,000) units plus calcium phosphate

(300 mg.). Display the tablets as a reminder to customers that early

prevention costs less in time and money than later cure!

GLAXO**ADEXOLIN with CALCIUM TABLETS**

Face Prices: 50, 3/4d. plus tax; 1,000, 40/- tax free. Trade discount 25%

For 33 1/3% profit order display parcel No. 3.

One dozen bottles of 50, 26/8d. net plus 10/- tax

- and GOOD NEWS OF ADEXOLINAs from 11th September, Adexolin Capsules are increased in potency ...certain sizes of both the capsules and the liquid are reduced in price:**CAPSULES**

Size	Old Face Price	New Face Price
100	6/8d.	6/-
1000	52/-	40/-
25	Unchanged	2/-

Increased in potency from 4500 units vitamin A and 900 units vitamin D to 6000 units vitamin A and 1000 units vitamin D per capsule.

LIQUID

Size	Old Face Price	New Face Price
14 cc.	2/6d.	2/3d.
2 oz.	8/6d.	6/9d.
16 oz.	Unchanged	40/-

Potency unchanged: 12000 units vitamin A and 2000 units vitamin D per cc.

GLAXO LABORATORIES LTD., GREENFORD, MIDDLESEX.

BYRn 3434



*"I would advise a **BROOKS**"*

FOR hernia of all kinds, members of the Medical profession have, for many years, prescribed the fitting of BROOKS RUPTURE APPLIANCES. Every BROOKS APPLIANCE is made to individual requirements; a special feature of our service being that

**WE MAKE AND SUPPLY WITHIN A WEEK
OF RECEIVING THE MEASUREMENTS**

*Allow us to send you full particulars—a postcard will suffice.
Literature, including Measure Forms supplied free.*

Distributor for
EIRE
**A. W. MAGENNIS
LTD.**
65 Middle Abbey St.
DUBLIN

Distributor for
N. IRELAND
**Mr. E. A. POOTS
M.P.S.**
84 Main St., Larne,
N. IRELAND

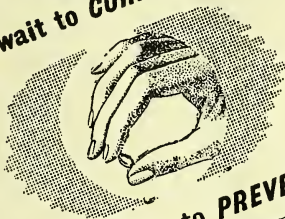
BROOKS APPLIANCE COMPANY LTD

(854B) 80 CHANCERY LANE, LONDON, W.C.2. • • • HOLborn 48
(854B) HILTON CHAMBERS, HILTON ST., MANCHESTER, 1. Central 50
(854B) 66 RODNEY STREET, LIVERPOOL, 1. • • • Royal 65

Public Press Campaign



Why wait to CURE a cold ...



when it's easier to PREVENT ...

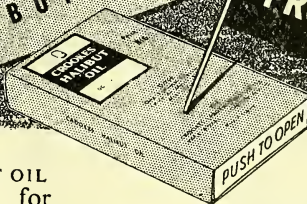
CROOKES
HALIBUT OIL

ENTIRELY
NEW

HARD
HITTING

COMPLETE
COVERAGE

GENEROUS
PROFITS



THE CROOKES HALIBUT OIL public press campaign for the new STRONGER Capsules starts at the end of September. Full particulars of the various Bonus Parcels, attractive display material and dressed window shows will be mailed to all chemists during the month. Your particular attention is drawn to the additional 5% discount now offered on orders embracing the complete range of Bonus Parcels. *Order now to ensure prompt delivery.*

CROOKES



H A L I B U T O I L



THE CROOKES LABORATORIES LIMITED • PARK ROYAL • LONDON • N.W.10.

BIOLOGICAL PREPARATION

THE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY IDENTICAL WITH THAT OF PRE-WAR PREPARATIONS

because of our heavy purchases immediately before war broke out. Our stocks are still considerable and the high MBL standard will be fully maintained

THERE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS

					Retail Prices	CHEMISTS' PRICE					
						Per unit			Per dozen		
					(inclusive of Tax)	Net +		Purchase Tax	Net +		Purchase Tax
ANTIPEOL											
OINTMENT	4 oz. tube	...	...	...	7/5	4/2½	+	1/5	50/5	+	16/-
	40 gr. "	...	...	...	3/8½	2/1½	+	8½	25/3	+	8/-
	20 gr. "	...	...	...	2/1	1/2	+	5	14/-	+	4/-
LIQUID	40 c.c. bottle	...	...	...	3/8½	2/1½	+	8½	25/3	+	8/-
OPHTHALMO-ANTIPEOL											
20 gr. Nozzled Tube	...	...	...	...	3/8½	2/1½	+	8½	25/3	+	8/-
8 gr. " "	...	...	...	...	1/9	1/-	+	4	11/11	+	4/-
RHINO-ANTIPEOL											
20 gr. Nozzled Tube	...	...	...	...	3/1	1/9	+	7	21/-	+	7/-
8 gr. " "	...	...	...	...	1/9	1/-	+	4	11/11	+	4/-
ENTEROFAGOS											
Box of 50 ampoules	...	...	...	...	19/-	13/3½		None	159/7		No
" 10 "	...	...	...	...	4/3	3/-		None	35/8		No
" 5 "	...	...	...	...	2/6	1/9		None	21/-		No
DETENSYL											
Tin of 500 tablets	...	...	...	...	43/-	24/-	+	8/-	288/-	+	96/-
Tube of 50 "	...	...	...	...	4/11	2/8½	+	11	32/4	+	10/-
ST. JAMES' BALM											
Tin of approx. 2½ oz.	...	...	...	...	3/1½	1/11	+	7½	22/6	+	7/-
" " 1 oz.	...	...	...	...	1/7	11	+	4	11/3	+	3/-

Carriage paid on all orders of 1 dozen or £1 and over.
Terms : NETT, Monthly Account.

MEDICO-BIOLOGICAL LABORATORIES LTD., LONDON, S.E.

Resistance to colds ?

Yes, this is the time when customers come in for Esobactulin. If we do as well on Esobactulin as we did last year, we shan't complain." The complete course—6 capsules taken over 5 days—designed to give most people 3 months' immunity from colds.

Retail price 8/3 inc. P. Tax

Supplied through your Wholesaler
10% DISCOUNT—Plus bonus of 13 to the dozen

COUNTER AND WINDOW DISPLAYS NOW
WILL BRING RESULTS

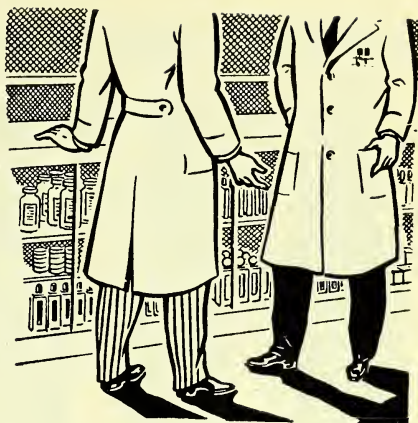


Literature on request

SOUTHON LABORATORIES LIMITED
UPPER RICHMOND ROAD, LONDON, S.W.15

ESOBACTULIN

protection against colds



FOR

PATENTS

DRESSINGS

PILLS & TABLETS

DANGEROUS DRUGS

DRUGS & GALENICALS

ETHICAL PROPRIETARIES

SMITH & HILL
(Chemists) Ltd.

SIDNEY ST., SHEFFIELD, 1
Phone: 24321

For over 60 years
the trade have
relied on the

**PILLS
CAPSULES
& TABLETS**

OF

HOWARD LLOYD

Many young chemists (as their fathers did 30 years ago) are placing all their orders with HOWARD LLOYD. They know that Howard Lloyd give constant satisfaction—in special order or regular bulk supplies.

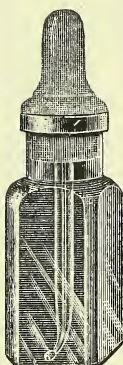
HOWARD LLOYD & CO., LTD.
LEICESTER

FITTED BOTTLES FOR PACKERS



No. 801

"OILTITE" POISON



No. 308

"REGULATOR"



No. 800

"OILTITE"

Illustrated are a few fitted bottles from our big range. Prices are competitive. Complete lists sent on request.

No. 462
CORN CURENo. 817/W
IODINE

WRITE THE ACTUAL MAKERS:—

M. J. FECHER LTD

121 HIGH STREET, SLOUGH, BUCKS

SLOUGH 2J864

"Beaumanor"
**Air Purifying
Unit**

—the most up-to-date Unit for
HOME • OFFICE • & • WORKSHOP

This Deodoriser and Moth Repellent contains no naphtha or camphor content—its base is paradichlorobenzene.

3/3

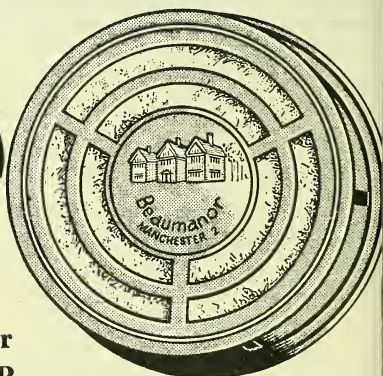
RETAIL
Liberal
TRADE
Terms

In Ivory and Green Packs
Individually boxed.

Refills (2 Tablets) boxed Separately.

Can be fitted in Bathroom, Toilet, Wardrobe or any room to promote a germ-free atmosphere.

Attractive Display Card Available



**HYGIENIC
DEODORANT
GERMICIDAL**

Agencies
Available
WRITE FOR
DETAILS

BEAUMANOR HYGIENIC PRODUCTS LTD. • 1 POLICE STREET • MANCHESTER,

FIVE *of Britain's* FOREMOST *proprieties*



The high quality and good value of the VENO products have withstood the searching test of home medication for many years. You can recommend and sell them to your customers with every confidence and be assured of consistent repeat business yielding an attractive margin of profit.

Veno's, Cassell's, Phensic Germolene, Germoloids

TERMS: On combined orders amounting to £3 and upwards qualified Chemists are allowed 10% discount in return for window display, plus 2½% discount for cash in thirty days.

VENO DRUG CO., LTD., ST. HELENS, LANCASHIRE

The Veno Drug Co., Ltd. is the authorised selling agent for Phensic Ltd.

sterilised bone calcium phosphate

Technical information, samples and quotations will be sent on request

→ **CALFOS LTD. IMPERIAL HOUSE, KINGSWAY, LONDON, W.**

Telephone: Temple Bar 3629

PATTINSON'S Res'd Brand **MAGNESIA**

GUARANTEED B.P. QUALITY

Mag. Carb. Levis. Mag. Carb. Pond.
Mag. Oxide Levis. Mag. Oxide Pond.
 Mag. Trisilicate.
Mag. Hydrate. Mist. Mag. Hydrox.

*Supplied through all wholesalers
by the sole manufacturers:*

**The WASHINGTON CHEMICAL
CO. LTD.**

A MEMBER OF THE
TURNER & NEWALL ORGANISATION

**WASHINGTON
CO. DURHAM**

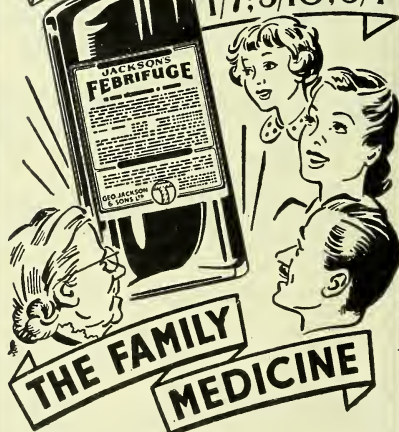
London Office:

Everite House, 59½, Southwark St., S.E.1

Manchester Office:

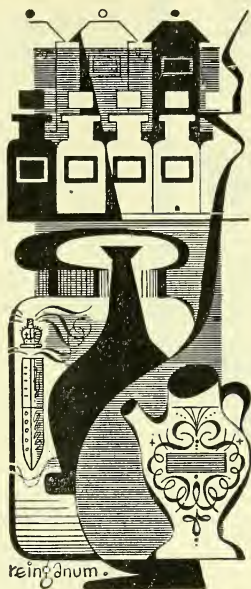
15, Pollard St. East, Manchester, 10

JACKSON'S FEBBRIFUGE



GEO. JACKSON & SONS LTD., Harpurhey, Manchester

B.D.H. POLICY: 2



Purity and reliability of preparations

At the turn of the century the names of Davey Hill & Co., Barron Harveys & Co. and Hearon Squire & Francis were notable names in pharmacy, and older pharmacists will recall with affection the unimpeachable quality of their merchandise and the scrupulous fairness of their trading policy. Amalgamation of these companies to form the B.D.H. was followed by rapid expansion both of manufacturing facilities and of the range of products listed, but the underlying characteristics of the constituent companies have remained. The increasing complexity

of manufacturing processes has been matched by complementary increases in analytical and research facilities to safeguard B.D.H. quality. The introduction of new B.D.H. medical products is preceded by searching laboratory and clinical investigation; thus is their reliability assured. The B.D.H. laboratories and works are today producing efficiently and economically substances for every branch of medicine and pharmacy and in each one the accent is on purity, reliability and fair price.

B.D.H. MEDICAL PRODUCTS • DISPENSING CHEMICALS
GALENICALS • PILLS • TABLETS • INJECTION SOLUTIONS

THE BRITISH DRUG HOUSES LTD. LONDON N.1

TORONTO SYDNEY BOMBAY JOHANNESBURG AUCKLAND Omn/T/33

*Always
in
demand*



*Largest
sale in
the World*

After being on the market for over 50 years, Andrews has the largest sale of any effervescing saline in the world. Competitors may come—and go—but the steady demand for Andrews continues because

Its formula is ideal — and unique
It suits the popular taste
Its packing and keeping qualities are guaranteed

Newspaper and poster advertising covers the country

Stock up with

ANDREWS

FOR

Inner Cleanliness

GT 20

GREY HAIR

THE ANSWER IS

INECTO-RAPID

- ★ *The best-known hair dye over the world*
- ★ *Exactly reproduces natural own colouring*
- ★ *Guaranteed permanent.*
- ★ *Unaffected by permanent waving*
- ★ *Clean and very simple apply*

INECTO

SUPPLIES THROUGH
YOUR USUAL WHOLESALER

Prices are as follows —

	WHOLESALE	P.T.	RET.
Full-size outfit (4 pairs of bottles)	84/- doz.	84/-	17
Trial-size outfit (1 pair of bottles)	30/- doz.	30/-	6

ENQUIRY BUREAU:
INECTO HOUSE
27 DOVER STREET, LONDON, W.1
Telephone: Regent 7541

FOR HOME & EXPORT

**META AMINO
PHENOL 99/100%**

**PAS ACID
PAS SODIUM
PAS CALCIUM**

in Bulk and Tablet forms

SULPHA DRUGS

**EPHEDRINE
HYDROCHLORIDE**

SULPHONES
(Export only)

VITAMIN B₂

● *We can
supply these
and many other
drugs advan-
tageously.*

**M·W·HARDY
& CO. LTD**

6 BILLITER STREET · LONDON · E.C.3
TELEPHONE · ROYAL 8343 (10 LINES) · TELEGRAMS · HARDICHEM · LONDON

OUTSELLS ALL OTHER HAIR TREATMENTS

**Best terms bring
you 2/- profit
on every sale**

The solid reputation of Pure Silvikrin as a scientific hair treatment has put its sales streets ahead of any competition. Are you getting your proper share of this lucrative business? It pays to push Pure Silvikrin with good displays. Not only are you backing a proved and tested product, safe to recommend, but, bought on best terms, every bottle yields you 2/- profit. Silvikrin advertising this year will be bigger and better than ever. NOW is the time to order on Best Terms.



Pure Silvikrin

Silvikrin Laboratories Ltd.

Sole Selling Agents: Prichard & Constance (Mfg.) Ltd

North Circular Rd., N.W.10 ELGar 8095

IODIDES



FOR HOME & EXPORT
SPECIALLY PACKED

APPLY FOR TERMS



POTTER & CLARKE LTD

60-64 ARTILLERY LANE, LONDON, E.I.

Phone: BISHOPSGATE 4761

Grams: Horehound, Phone, London.

77 DANTZIC STREET, MANCHESTER 4

Phone: BLACKFRIARS 8734

Grams: Horehound, Manchester

62 ORBISTON STREET, MOTHERWELL

Phone: MOTHERWELL 1413

Grams: Horehound, Motherwell

Agents in Northern Ireland:

HAROLD MITCHELL & Co. Ltd., 321 Grosvenor Rd., BELFAST. Tel. 24356

ASPRO LIMITED

The Fifteenth Annual General Meeting of Aspro Limited was held September 8 at 16, Berkeley Street, London, W.1. Mr. Maurice A. Nichol the Chairman, presided.

The following is the Chairman's circulated Statement :—

I am happy to report a further year of good progress by the Company. Over the year, sales have been further increased, and the continued development of the business, at home and abroad, demonstrated in the charts shown on pages 14 and 15 of the report.

Turning now to the accounts, it will be seen that our financial position has been well maintained and that the favourable trend of trading results continues. I do not believe that it is necessary for me to comment on any particular items in the accounts which are so drawn up as to give stockholders the maximum of information.

The profit on trading and income from investments as shown in the Consolidated Profit and Loss Account for the year ended 31st March, 1950, before taxation and other chargeable items, amounts to £780,376, as compared with £432,457 for the nine months to 31st March, 1949, and £585,506 for the year ended 30th June, 1948. The surplus after charging Taxation is £221,846, and after adding to the balance of profits brought forward from the previous year, we have a total surplus of £416,600. After deducting £56,375 representing Dividends on the Preference Stock and an Interim Dividend of 15 per cent. on the Ordinary Stock, your Board propose to allocate £100,000 to the General Reserve, £5,000 to the Staff Contingencies Reserve of Aspro Limited, and to recommend a final dividend of 20 per cent., less Income Tax, on the Ordinary Stock. The Balance remaining to be carried forward to the Consolidated Profit and Loss Account will be £180,332, compared with £194,773 as at 31st March, 1949.

You will find on page 13 of the report a chart showing the percentage distribution of the net income of Aspro Limited, for the year ended 31st March, 1950, after defraying the cost of services received, and the cost of materials furnished. You will note that the distribution of this net income was as follows:

Net Income of Aspro Limited	...	...	...	...	...	...	...	...	100
Less :								%	
Wages, Salaries and Superannuation	...	...	...	...	...	...	...	29.0	
Depreciation of Fixed Assets	...	...	...	...	...	...	...	4.8	
We set aside to strengthen and develop the business	...	...	...	...	...	...	...
Leaving to be absorbed by :—									
The State and Local Authorities	...	...	...	...	...	...	...	39.9	
The Stockholders	...	...	...	...	...	...	...	14.9	

On page 12 of the report there are diagrams reflecting the financial position of Aspro Limited at 31st March, 1950 and 31st March, 1949. These give a clear picture of the increased financial strength of the Company.

The continued development of our overseas markets has the constant attention of your Board, and in spite of restrictions on imports, still operative in many parts of the world, your Company continues to make solid progress in this direction.

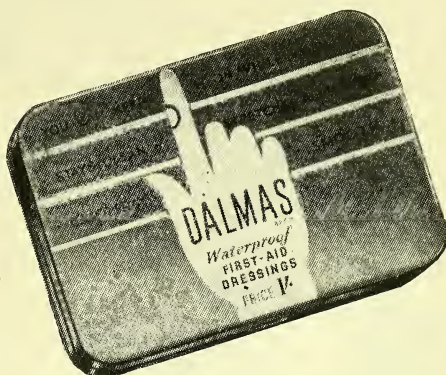
Finally, I would say that the Company and its subsidiary companies are maintaining their position in the competitive field. I am satisfied that we have an organisation which will assure to the Company continued prosperity, subject, of course, to political and economic circumstances which are beyond our control.

Very recently we have suffered a great loss through the sudden death of Mr. Robert Greenwell. Mr. Greenwell was Chairman of the Ivers-Lee subsidiary Board and has been connected with the 'Aspro' organisation for many years.

For myself, for my co-directors and for all those who have served with him I would express our great appreciation of his qualities and our deep sympathy with his wife and family.

I desire to thank my colleagues on the Board for their valued contribution to 'Aspro's' continued success and to reiterate my appreciation of the fine work done by the Managing Director, Executive Staff, both at home and abroad, over the year.

NOW mpregnated with 5-aminoacridine hydrochloride



Outstanding development in Dalmas First-Aid Dressings

Mummy! This could be happening now!



3.30 p.m. Fluffy as a sandbag, until just minutes later...



4.31 p.m. Tragedy! And Mummy saves the situation again.

FALLING down, cutting themselves, is part of children's lives; you can't help it. But to keep your family out of danger you must be prepared. Unless you give quick first aid, even a minor scrape may turn nasty and infection may set in. So BE READY. Be sure there's always a tin of Dalmas first aid dressings in your home. Old-fashioned dressings have given way to this amazing new kind, which are waterproof, you can wash wearing one and it won't come off. Put on over a clean wound, it will keep out dirt, oil, and grease. It will

stretch in all directions, yet sticks tight, and the edges won't fray. You can put one on and never know you are wearing it! Dalmas dressings are flesh-coloured. They look, feel, and protect you just like your own skin! A tin of Dalmas holds dressings of different sizes and shapes to fit every cut, scrape, or sore place. Better be safe than sorry! Buy some Dalmas today—price 1/- at chemists' and stores. You never know when you—and one of your family—may be glad you thought ahead!

These powerful advertisements will appear over 175,000,000 times in the Daily Express, Daily Mirror, Daily Mail and other prominent daily newspapers. Make sure you profit from the wide interest this family appeal will arouse!

THE many advantages of Dalmas first-aid dressings are well known to the trade. Now another improvement has been made in medicating the pad with 5-aminoacridine hydrochloride.

The healing properties of this antiseptic, which attacks germ-infested areas and promotes healthy living tissue, are well known.

Dalmas dressings are waterproof and grease-proof, and can be worn while washing. They are skin-coloured; they stretch in every direction, and the edges stick tight.

Dalmas dressings are supplied in blue-and-white counter sell-outs, price 8/5 per dozen for three dozen tins, to retail at 1/- each.

OTHER DALMAS PRODUCTS YOU WILL WISH TO SELL

DALMAS VACCINATION SHIELDS. A new waterproof vaccination dressing, retail price 1/-. Special size for babies and small children. In cartons of four 1/-.

DALMAS BOIL PLASTERS. A new waterproof dressing for boils. Handy boxes, price 1/- retail, including Purchase Tax.

DALMAS HEEL DRESSINGS. Specially designed for sore and blistered heels. Handy boxes, price 1/- retail.

DALMAS LIMITED

LEICESTER (Phone: Leicester 65261)

London Depot: 140-142 St. John St., E.C.1 (Clerkenwell 3399). Leeds Depot: 14 Neville Street (Leeds 29764). Scottish Agents: Robert Telford, 29 Waterloo St., Glasgow, C.2 (Central 2716)



stock-recommend-display

Wright's

COAL TAR INHALER AND VAPORIZER

for quick relief from

**COLDS
INFLUENZA
BRONCHITIS
WHOOPIING COUGH
CATARRH ETC.**



Wright's Coal Tar Inhaler & Vaporizer, eminent-ly suitable for the relief of colds, catarrh, and like congestive conditions—should be well and prominently displayed. It offers good sales on good terms.

Complete with full size bottle
of Vaporizing Liquid Retail 6/-
Vaporizing Liquid Refills Retail 1/2½ and 4/3
Spare absorbent blocks Retail 1/- each

WRIGHT LAYMAN & UMNEY LTD., SOUTHWARK, LONDON, S. E.

The problem was to neutralise aspirin and to make it soluble. The problem has now been solved

Aspirin is acidic, sparingly soluble, and for many subjects a gastric irritant. By contrast, its calcium salt is neutral, soluble and bland.

Unfortunately, however, calcium aspirin as ordinarily presented is unstable, and thus, sooner or later becomes contaminated with the breakdown products, acetic and salicylic acids. In 'Disprin' the problem

of providing calcium aspirin in stable and palatable form has been solved. Extensive clinical trials show that Disprin in large dosage and over prolonged period can be tolerated without the development of gastric and systemic disturbances, except in cases of extreme hypersensitivity



DISPRIN *Neutral, stable, soluble,
palatable calcium aspirin*

On prescription Disprin is free of Purchase Tax
Clinical sample and literature supplied on application

RECKITT & COLMAN LTD., HULL AND LONDON. (PHARMACEUTICAL DEPT., HULL)

DISPENSING SUNDRIES

HANG UP IN YOUR DISPENSARY

DISPENSING BOTTLES

	1 oz.	2 oz.	3 oz.	4 oz.	6 oz.	8 oz.	10 oz.	12 oz.	16 oz.	20 oz.
WHITE FLINT FLATS										
STANDARD QUALITY IN CARTONS										
5 Gross Assorted	Per Gross 15/9	16/3	17/6	18/9	20/3	21/-	26/3	29/6	37/6	51/-
U.G.B. WASHED AND STERILISED	Per Gross 14/9	15/3	16/6	17/3	19/-	19/9	24/9	27/6	35/-	48/-
5 Gross Assorted	—	21/6	—	24/6	—	21/-	39/6	45/-	58/6	85/6
	—	28/-	—	34/9	—	25/-	37/-	42/6	47/6	61/6
RIBBED OVALS										
STANDARD QUALITY	Per Gross 14/9	16/3	18/3	19/6	21/-	21/9	27/6	30/9	39/-	52/6
Screw Caps if required	5 Gross Assorted 13/6	15/3	17/3	18/-	19/9	20/6	24/-	28/9	36/6	49/6
Per Gross	3/6	3/6	3/7	3/7	3/9	4/-	4/-	—	—	—
BOW FRONTED PANELS										
U.G.B. WASHED AND STERILISED	Per Gross 27/-	30/-	31/6	35/-	37/6	40/-	—	45/6	52/-	78/-
Black Korkline Caps	5 Gross Assorted 25/-	27/6	29/-	32/6	35/-	38/-	—	42/-	51/6	74/-
VIALS	1 oz.	2 oz.	3 dr. (screw cap)	TABLET TUBES		TABLET BOTTLES		256.	50s.	100s.
Per Gross 9/8	13/-	18/-	716 Per Gross	9/- Per Gross	Bakelite Caps Per Gross 13/6	16/-	21/-			
5 Gross Assorted	12/3		18/-	16/-						

CORKS

STANDARD GREEN LEAF	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Non	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Per Gross	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
BEST SILVER LEAF	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Non	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Per Gross	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2

CHEPETTES

PER GROSS

CORRUGANZA

PER GROSS

LITTLE JOHN DRUG

PER GROSS

MAGNESIA LITTLE

Per gross, ydr 5/- 10/-

GLASS JARS

With Bakelite Caps

OPAL U.G.B. Per Gross

WHITE FLINT Per Gross

DISPENSING MEASURES

	2 dram	1 oz.	4 oz.	1 lb.
CONICAL Minn. Graduations	48/-	50/-	67/-	—
CONICAL Drachms and Ounces Per Dozen	1/6	2/6	4/6	8/6
CUP SHAPE Ounce Graduations	10/6	20/6	40/6	142/-
	81/-	95/-	142/-	—

FUNNELS, LOTION BOWLS, Etc.

FUNNELS	3"	4"	5"	6"	8"
Glass	20/-	30/-	24/-	—	33/-
Enam. Iron	—	—	—	—	58/6
Porcelain	—	—	27/-	—	—
LOTION BOWLS	—	—	—	15/6	25/6
Enam. Iron	—	—	—	—	24/-
KIDNEY TRAYS	—	—	—	—	—

SPATULAS AND STIRRING RODS

SPATULAS	4"	5"	6"	7"	8"	9"	10"	12"
Porcelain	6/3	6/10	8/9	12/6	15/-	15/3	18/9	25/-
Vulcanite	—	—	5/6	7/6	10/-	—	—	—
Steel	35/-	39/-	42/-	49/-	56/-	67/-	81/-	—
Stainless Steel	—	—	—	45/-	75/-	—	—	—
STIRRING RODS	—	—	—	—	—	10/9	14/-	—
Vulcanite	—	—	—	—	—	—	—	—
Glass	—	—	—	—	—	3/6	—	—

FILTER PAPER, Etc.

FILTER PAPER	5"	6"	7"	8"	10"	11"
Thin White, per 100 sheets	1/8	2/-	2/10	3/1	3/5	5/1
Thin Grey, per 100 sheets	1/3	1/8	2/5	2/10	3/3	5/1
TEST TUBES 5" x 1, doz	—	—	—	—	—	1/-
BUNSEN BURNERS	—	—	—	—	—	—
Chromium plated, with positive on and off tap	—	—	—	—	—	13/6
CHUCK CLUSTERS 24" x 24, doz	—	—	—	—	—	21/-

PESSARY AND SUPPOSITORY MOULDS

PESSARY	6-hole	12-hole	SUPPOSITORY	12 gr.
60 gr.	27/-	48/-	—	12 gr.
120 gr.	48/-	80/-	—	—
	—	—	—	—

All Brass Nickel Plated Conical Shape

MORTARS AND PESTLES

MORTARS AND PESTLES	4"	4 1/2"	5"	6"	8"	10"	12"
Fig.	0	1	2	4	6	8	10
Each	5/-	6/-	8/9	11/6	15/6	25/-	39/-

ointment SLABS

ointment SLABS	4"	6"	8"	10"	12"
Each	4/6	6/6	8/6	10/6	12/6

PRICES SUBJECT TO ALTERATION WITHOUT NOTICE

Telephone ARDWICK 1561-2

May, 1950

MACDONALD & SON LTD.
HOPE MILLS POLLARD STREET MANCHESTER 4

Full size of our Dispensing Sundries Card, 12 1/4" x 9 1/4".

Moulded Hot Water Bottles

Fabric Hand-Made Hot Water Bottles

Hospital Sheetings, Etc.

Bathing Caps, Beach Balls

Mandelle
MADE IN GREAT BRITAIN

J. MANDLEBERG & CO. LTD.
Seaforth Road, Salford, 6, Lancs.

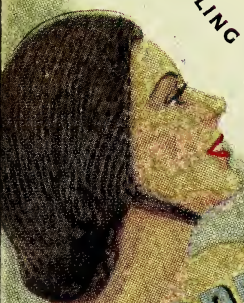
WHOLESALE ONLY

MANDELLE
BATHING CAPS

Raywarp

BEST SELLING RANGE OF

Quality HAIRNETS AND SLUMBER NETS



RAYWARP TEXTILES LIMITED
ALFRED ST. NORTH · NOTTINGHAM

After Summer Holidays —



*Look ahead to
Christmas —*

*Order
your* **Enka**

**TOILET
SPONGES NOW**

Early to think of Christmas? Not where Enka Sponges are concerned. They sell well all the year round, but at Christmas they have special appeal as the extra Gift for any member of the family. The attractive show outer for the counter will bring Enka Sponges to the notice of all your customers. Send your orders for Christmas delivery **NOW!**

3

**ATTRACTIVE
PASTEL SHADES**

Enka Sponges are made in pink, blue, or green from pure cellulose.



**DOES EVERYTHING A
SPONGE DOES — BETTER**



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NO RUB

**MACWILL & COMPANY
LIMITED**

**7, WEST ROAD
KINGSTON - ON - THAMES**

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KINGSTON 8556

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Addis^{REGD.}
BEAUTY BRUSH

*gets big boost
by leading
mannequins!*



*Frederick Starke's lovely Julia Daniell is one of the mannequins
sponsoring the Addis Beauty Brush in national magazines*

Great campaign means year-round sales

Yes, London's loveliest mannequins are sponsoring the Addis Beauty Brush in big national magazine advertisements — which your customers are going to see and absorb. They'll be struck by Beauty Brush loveliness, impressed by its efficiency, amazed at its low price — and they'll buy! And demand is going to stay up — all the year round! Stock up with the Addis Beauty Brush now! 12/6 retail.



*It's lovely,
it's efficient,
it sells on sight*

*Stock and
display the*

Addis^{REGD.}
BEAUTY BRUSH

*all the
year round*

You pay only £8.15.0 for an
I.C.C. £10 parcel



INTERNATIONAL CHEMICAL COMPANY LIMITED



Your profit is at least £4.11.8

I.C.C. Mixed Parcels carry extra discounts of $12\frac{1}{2}\%$ on parcels to the value of £10 and over, 10% on parcels to the value of £5 and over. These Co-operation Discounts are *in addition to the usual basic trade discounts*.

I.C.C. Products are nearly all household words — look at the list given on the right of this page. Because I.C.C. offers this great variety of quick-selling lines, every pharmacist can give a mixed order large enough to qualify for Co-operation Discount, with no risk of over-stocking.

Study our Price List, work out a parcel to suit your requirements and . . .

SEND YOUR ORDER NOW

*** Your Return . . £13.6 .8**

Your Outlay

(£10 less $12\frac{1}{2}\%$) £8.15.0

Your Profit . . . £4.11.8

All I.C.C. Products can earn extra Co-operation Discount

SELLING PRICE INC. TAX	PRODUCT	TRADE PRICE EX. TAX	TAX PER DOZ.
3/-	'Anne French' Cleansing Milk	14/4	14/4
1/8	'Anadin' Tablets 20s	12/-	4/-
3/4	'Anadin' Tablets 50s	24/-	8/-
1/9	'BiSoDoL' Powder	12/9	4/3
4/1	'BiSoDoL' Powder	29/3	9/9
1/4	'BiSoDoL' Tablets 30s	9/9	3/3
3/7	'BiSoDoL' Tablets 100s	26/-	8/8
1/9	'Bisurated' Magnesia Powder (Plain or Mint)	12/9	4/3
3/7	'Bisurated' Magnesia Powder (Plain or Mint)	26/-	8/8
1/9	'Bisurated' Magnesia Tablets 75s	12/9	4/3
3/7	'Bisurated' Magnesia Tablets 165s	26/-	8/8
1/10 $\frac{1}{2}$	'Freezone' Corn Remover	13/6	4/6
1/3	'Kolynos' Dental Cream	9/-	3/-
2/2	'Kolynos' Dental Cream	15/9	5/3
1/3	'Kolynos' Denture Powder	9/-	3/-
2/2	'Kolynos' Denture Powder	15/9	5/3
1/6	'Kolynos' Denture Fixative	13/6	*
3/9	'Kolynos' Denture Fixative	33/9	*
2/6	'Kolynos' Shaving Cream	18/-	6/-
2/9 $\frac{1}{2}$	'Lystone' Salts	19/9	6/7
1/11	'Pineate' Honey Cough-Syrup	13/9	4/7
1/10 $\frac{1}{2}$	'Reudel' Bath Salts	13/6	4/6

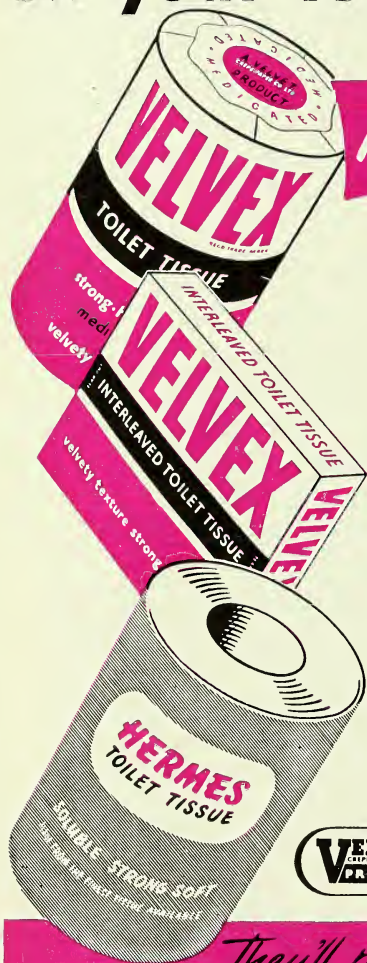
*Exempt from P.T.



CHENIES STREET · LONDON · W.C.1

... and now !

EVEN **BIGGER** PROFITS on your Toilet Paper Sale



INCREASED MARGINS

... on **VELVEX**
The medicated, fully
wrapped, and sealed
Toilet Roll...

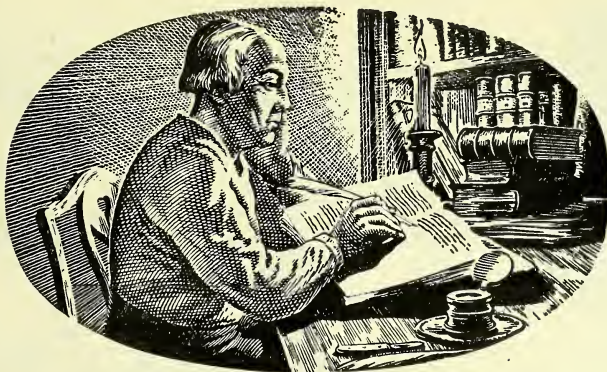
... on the popular
VELVEX Interleaved
Toilet Tissues...

... on **HERMES** the
quality Toilet Roll
with mass-market
price appeal



The Velvet Crepe Paper Co. Ltd.
Alperton Works, Woodside End, Wembley Middlesex

*They'll put you on **BETTER TERMS**
with yourself... and with your customers!*



*And then the aether which I made,
Claimed nearly all the aether trade
Throughout the trading nation;
And I with confidence might say,
That none before me knew the way
To do the operation.*

Thus in light-hearted doggerel verse Joseph Jewell (Luke Howard's foreman and later his partner) recorded his numerous and important chemical achievements. Luke, however, was less carefree in his method of expression. Ever since 1797, when he founded the firm of Howards, he recorded in great detail and with the utmost precision every laboratory experiment and every production process. The accuracy of his methods and the extreme care with which he recorded his work and his discoveries formed the foundation of Howards' character today—manufacturers of the finest chemicals.

Safe as

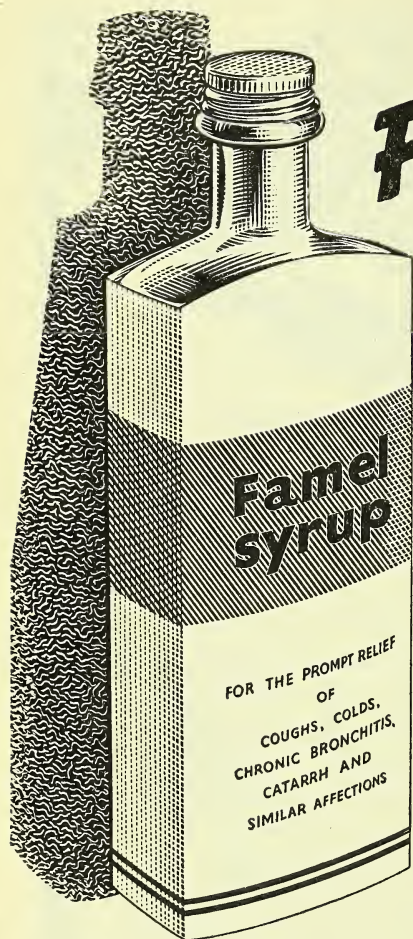
HOWARDS

Bromides, Citrates
Iodides, Iron Salts
Bismuth Salts
Sodium Bicarbonate



Lactates, Aspirin
Salicylates, Ethers
Quinine Salts
Tablets—etc.—etc.

HOWARDS & SONS LTD · ILFORD near LONDON



FAMEL sales
will jump
this winter.

★

Bigger Advertising

★

**Better Display
Material**

★

The Best Product

Order now!

FAMEL SYRUP

KELDON LTD · PERIVALE · MIDDLESEX

CHRISTMAS GIFTS ...

from 2/9 to £3

CHRISTMAS TREE GIFT SET

An attractive newcomer to the Christmas range. The set contains a handbag phial of perfume and a matching One Ounce bottle of perfumed Cologne. Available in all Goya fragrances.—
Retail price 5/9 per gift.
Trade price 27/9 per dozen.



TREASURE COFFRET

This year's new coffret is a particularly attractive gift. It contains six bath blossoms and a matching One Ounce perfumed Cologne and a 'Treasure Chest' perfume pack. Coffrets are available in all Goya fragrances. Retail price 13/6 per coffret.
Trade price 65/- per dozen.

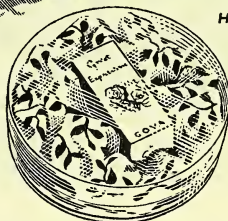
Goya

Goya solves the gift problem with presents to suit every pocket and purse.

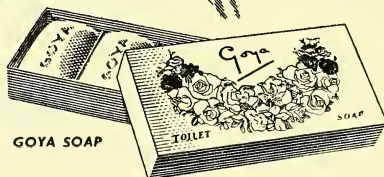
The four NEW lines illustrated here plus the normal Goya Christmas Range will be heavily advertised . . . will be in big demand.

Stock up early . . . display boldly—
make sure that you are going to have
the best-ever Goya Christmas

HANDKERCHIEF AND PERFUME GIFT SET



A handbag phial of perfume and an attractive coloured crepe handkerchief packed together in an acetate container. Available in all Goya fragrances. Retail price 5/-.
Trade price 28/- per dozen. (N.B. The handbag phial trade price is 13/3 per dozen plus 100% purchase tax. The handkerchief trade price is 14/9 per dozen plus 33 1/3% purchase tax).



GOYA SOAP

This Christmas, soap, particularly Goya Soap, will be given freely for the first time in years. Exquisitely perfumed and long lasting, Goya Soap is packed in boxes of three tablets. Fragrances:—Gardenia, Yellow Gorse, Blue Moss and Rose Geranium.
Retail price 1/8 per 3 oz. tablet.
Trade price 12/- per dozen.

WE do the Advertising YOU benefit from Selling

**DAILY MAIL
DAILY EXPRESS
DAILY MIRROR
DAILY HERALD
NEWS CHRONICLE**

WITH THESE FREE
SHOWCARDS
AND WINDOW
STREAMERS



VACCO Vacuum Flask advertising — to over 14,000,000 people monthly! — creates widespread demand. Divert this demand to your shop with these striking colour displays, free to every stockist. Details and terms from Vacco Sales Ltd., Grosvenor Gardens House, Grosvenor Gardens, S.W.1. Tel : Victoria 8785, 6

VACCO

The QUALITY Vacuum Flask

LINK UP AND SELL!

Stops Scurf

Page-Barker's

Scurf & Dandruff Lotion

Trade 20/- doz.

Plus Tax $\frac{1}{4}$ Retail 3/4

Ask for Showcard

*Money Back
Guarantee
on every bottle!*

Sole Distributors to the Chemists' Trade—

THOS. CHRISTY & CO. LTD. FARNHAM, SURREY

Sole Manufacturers and Proprietors:—

THE ILEX SUPPLY CO., LTD., 252b, GRAY'S INN ROAD, LONDON, W.C.





**C. Olley
& Sons Ltd.**
EST. 1844

**CORKS,
STOPPERS,
ETC.**


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(Dept. CD)
LEATHERHEAD, SURREY



The most outstanding, psychological and scientific invention yet produced for training children.

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MAKES CHILDISH DUTIES FUN!

Trade Price: 10/4½. Selling Price: 18/11 (inc. P Tax)
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**ALL GRADES
INCLUDING POWDER**

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Phone: Central 1688 Grams: "Carmoss," Liverpool

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MILLAMALT

Manufacturers: **JEFFREYS, BROTHERS & CO. LTD.,** Leyland Mills, Lancashire.
(London Dept. 19 Brookside Rd. N.19) **BECAUSE OF THE BUTTERSCOTCH FLAVOUR**

ROURA & FORGAS LIMITED

Sole Sterling Area Suppliers of

ITALIAN QUICKSILVER

HANOVER HOUSE, 73/78 HIGH HOLBORN, LONDON, W.C.1
Telephone Nos. HOLborn 0517/9



The BEATSON MEDICAL

A bottle of quality. The retention of the vial lip for easy pouring is combined with all the advantages of modern design, including the elimination of internal sharp corners allowing rapid dispersal of sediment.

★ *Plain or Graduated
Cork Mouth or Screw Cap*

BEATSON, CLARK & CO. LTD.
MANUFACTURERS OF CHEMICAL AND MEDICAL GLASS
ROTHERHAM • Established 1751 • YORKS.

BC. 6

“SURCO”

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ELASTIC HOSIERY

SEAMED AND SEAMLESS

SURGICAL BELTS

TRUSSES AND SUNDRIES

Over 50 years' service of
everything Surgical

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STOCK THIS RAPID SELLER



An efficient instrument for dealing safely and swiftly with corns, callouses, hard skin etc. Foot conscious customers will clamour for this. Trimacorn keeps feet fit and the sales moving. Retail at 2/- (inc. P.T.)

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GRAMS: "SYNTHETICS," CHESTER

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*Actual distillers of Essential Oils
Manufacturers of Aromatics, Perfume
Bases and Flavours.*

*We specialise in Cinnamon Bark Oil,
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Perfumes, etc.*

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*All Set..
to sell to MEN*

Puck
REGD.

SWIM CAP

Just the thing for men who swim, dive, play Waterpolo, this lightweight cap with close-fitting chinstrap, keeps hair out of the eyes, protects scalp from swimming-bath chemicals. There will be lots of business here.

Supplied in outers containing 4 doz. assorted (red, yellow, pale blue and white). Each cap in individual carton. Retails at 1/9 inc. tax.

*Order
this sure selling
line NOW!*

Only wholesale
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Send your enquiries to:

CROSSKILLS OF NORWICH

The main distributors for the Eastern Area

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GALENICALS, TABLETS, PACKED GOODS

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'STANDARD' MODEL

Supplied in
Assorted Colours

Superbly finished
and
always reliable

Retail 4/11

IDEAL FOR XMAS TRADE!

JUG SET

JUG only

Retail 13/6

Retail 10/11



ACME VACUUM FLASK CO.

PHOENIX WORKS, BRIDGEND, GLAM.

PLEASE MARK YOUR ORDERS



One Hole
OR *3-Hole*
PERFORATION

It does not appear to be generally known that the "MODERN" Teat, now being sold in ever increasing numbers, is available both in 1-hole and 3-hole perforation. The mother's choice is dictated by the individual needs of Baby and it is well worth while to have both varieties in stock.

In an attractive, transparent pack, the "MODERN" Teat is backed by consistent National advertising. (From your regular wholesaler).

RETAILERS! Send now for a supply of the new "MODERN" Weight Card and sales-promoting showcards direct to the manufacturers of the

"MODERN" TEAT

ANTI-COLIC

ANNON RUBBER MANUFACTURERS LTD. (Dept 30y) 5A WELBOURNE RD, TOTTENHAM, LONDON N.17

I took **VULFIX** straight on the chin!

And I kept it there, whipping up a
whisker wilting lather in a wink!



**VULFIX "SERVICE" obtainable
through all wholesalers**

Retail at 3/11, 5/11, 6/9, 8/6 each

THE BRUSH WITH THE TWO YEARS GUARANTEE



VULFIX "Service" Shaving BRUSH
A PURE BRISTLE

PROGRESS SHAVING BRUSH Co., Ltd.

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Just 1,000 to try out a new
preparation, or larger quan-
tities for a big sale, plain
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THE LABEL EXPERTS

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CARBOY STAND AND TILTER

For drawing off small
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Carboys.

The Carboy can be tipped
to any position with one
hand.

**LEIGH & SONS
METAL WORKS**
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**BRITISH
MADE AMPOULE FILES**
are now available

We are now in a position to manu-
facture large quantities of Ampoule
Files and invite inquiries

DOMINION STEEL CORPORATION
LTD.

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ADRENALIN
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PAPAIN · PEPSIN
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also ISOLATES:—
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CAJUPUT
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CORIANDER
PINE
(Abietis, Pumilionis)

PERFUME BASES

A wealth of experience backs our ability to produce exacting Floral odours and intricate bouquets. We cater for your special needs.

☆ Write for samples and prices. ☆

CHAS. ZIMMERMANN & CO. LTD

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Phone: PERIVALE 9121 (4 Lines).

Grams: AC/DOLAN GREENFORD-MIDDX

THE FLUID

AGITATOR-EMULSIFIER

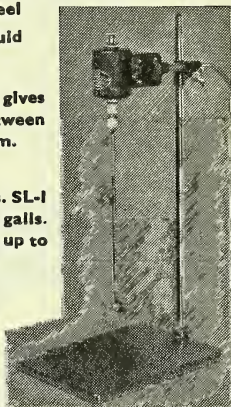
LABORATORY MODEL SL-A

All Stainless Steel
Contact with Fluid

Built-In Control gives
speed variation between
20 and 2000 r.p.m.

Also larger models. SL-1
for vessels up to 5 galls.
and S.C. for vessels up to
500 galls.

IMMEDIATE
DELIVERY



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GIVE
THEM A
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...but make sure
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RAT BISCUIT, not
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TISSUE
HANKIES



Absorbent Petal Soft, New fold tissues, Improved Folding
Boudoir, Bathroom or for travel use. Conveniently dispe
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signed for immediate single selection of coloured tis
without contamination. Each box contains 100 single sh
9" x 10" folded 4½" x 5". Obtainable in white only or sup
assorted tints and self colours



★ **HANKIES** also supplied
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THE
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Specially designed Dispenser Carton contains
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Less 5%
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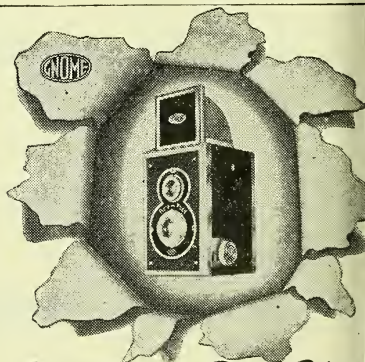
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Manufacturing Chemists

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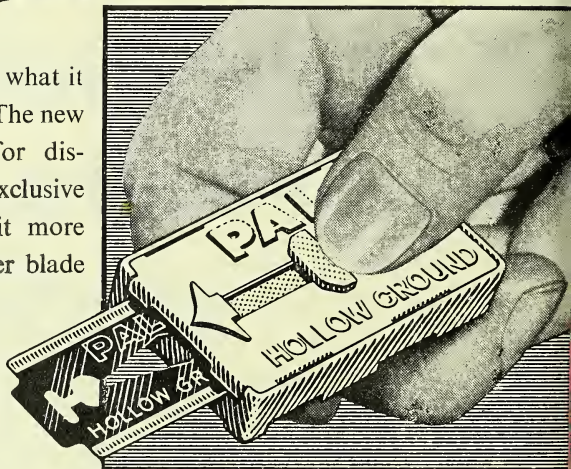
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Now it's **PAL** in the **ZIPAK** dispenser!

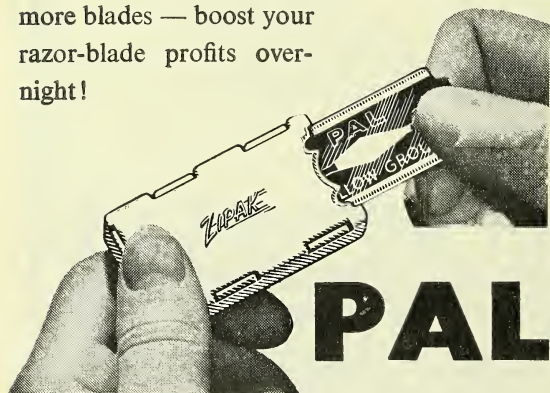
PAL in the new Zipak has what it takes to build blade sales! The new underside compartment for disposal of old blades is exclusive with the Zipak — gives it more sales appeal than any other blade dispenser.

And the price is *right* — still 2/- for 12 Super sharp Hollow-Ground Pal Blades and the Zipak.

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-ZIP! — Just a flick of the thumb puts gleaming new Pal Blade on the razor. No wrappings or loose blades to fumble with. Every Pal Blade spring-suspended protect its factory newness. The most in extra shaving speed and comfort.



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